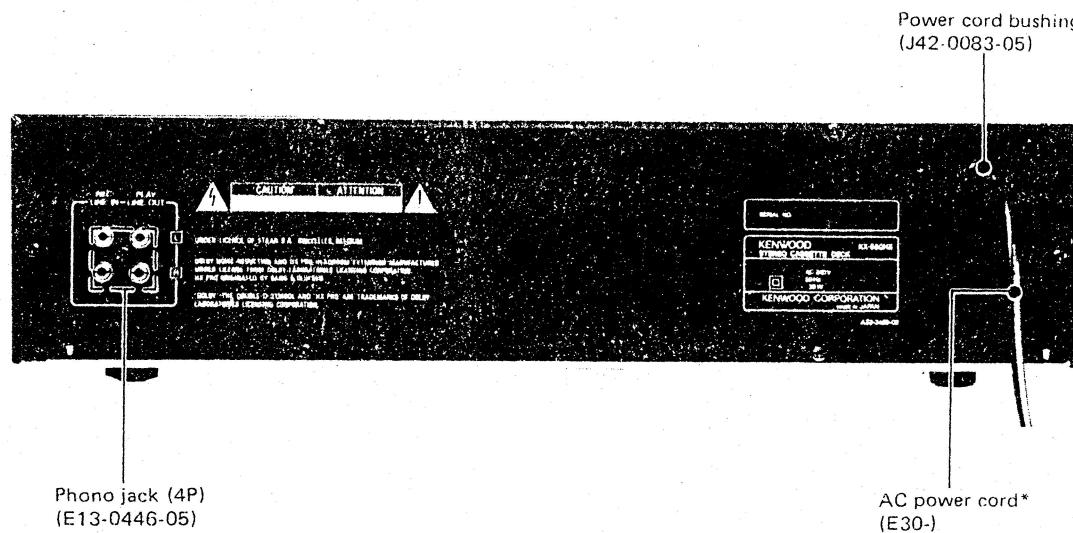
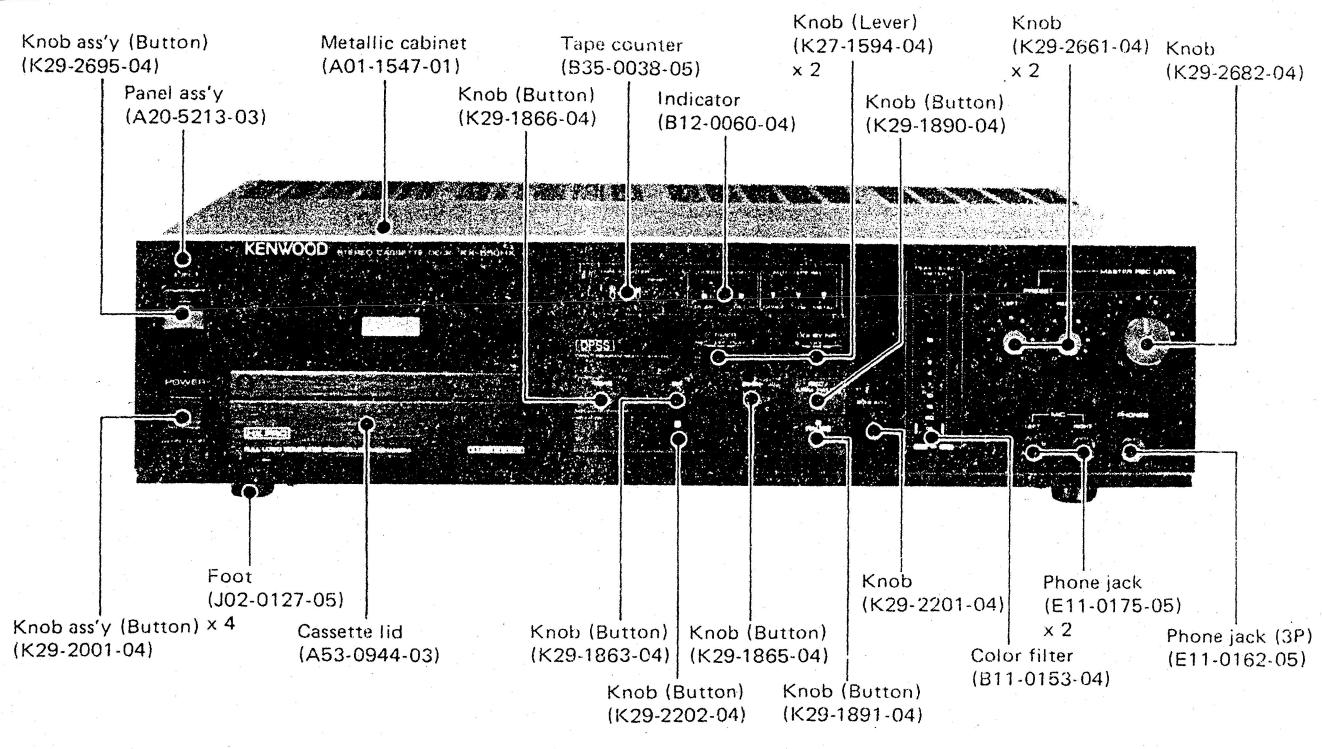


STEREO CASSETTE DECK
KX-550HX
 SERVICE MANUAL

KENWOOD

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 B51-3224-00(O)1088

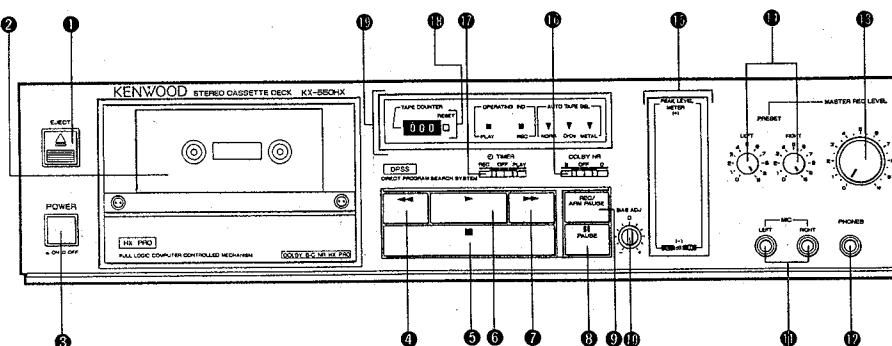


*Refer to the parts list on page 33.

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CONTROLS, INDICATORS AND CONNECTORS

Numbers in the front of names correspond that in the diagram



- ① **Eject key (▲)**
Pressing this key opens the cassette holder.
- ② **Cassette holder**
When the eject key is pressed, this holder opens. To close it, push the left upper section of the holder until it locks.
- ③ **POWER switch**
Press this switch to turn the power ON. Pressing again turns the power OFF.
- ④ **Rewind key (◀◀)**
Press this key to rewind the tape from right to left at high speed.
- ⑤ **Stop key (■)**
Press this key to stop the tape travel.

CONTROLS, INDICATORS AND CONNECTORS

⑨ REC/ARM PAUSE key
Press this key to start recording. It is not necessary to press the play key simultaneously since this unit provides the one-touch recording system. At this time, the record and play indicators light.

When this key is pressed again during recording, about 4 seconds non-recorded section is made and the tape travel will stop temporarily.

⑩ BIAS ADJ. knob
The bias current can be varied continuously with this according to the tape to be used.

⑪ MIC jacks (L/R)
Plug the microphones into these jacks when recording with microphones; L for left channel and R for right channel. Use the low impedance (600 ohms) microphones.

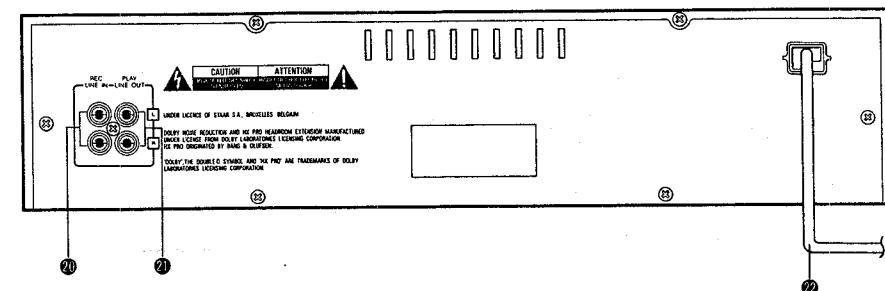
⑫ PHONES jack
Plug the stereo headphones into this jack to monitor recordings or tape playback.

⑬ MASTER REC LEVEL control knob
Adjust the recording input level with this knob. Left and right channel levels are varied simultaneously.

⑭ PRESET record level knobs
The signals for the left and right channels are adjusted independently with these knobs.

⑮ PEAK LEVEL METERS
This indicates the peak values of the input levels when recording or output levels when playback.

Note: When the microphones are connected, the signal input from the

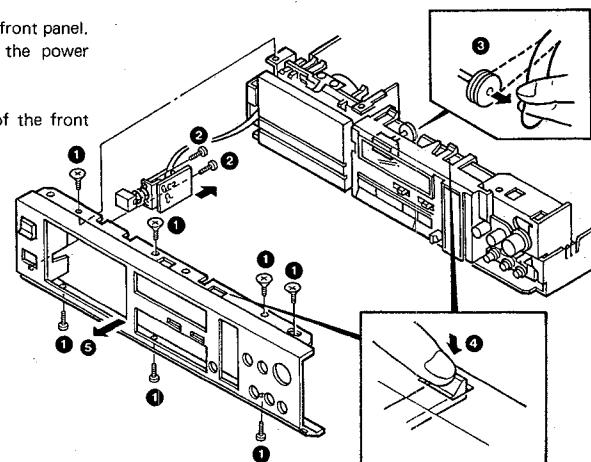


- ⑩ **DOLBY NR select switch**
Set this switch to B or C position when playback the tape recorded with Dolby NR circuit or when recording with Dolby NR circuit.
- ⑪ **TIMER standby switch**
Use this switch along with an audio timer when an unattended recording or timer-playback is performed. Set this switch to the REC position for unattended recording, to the PLAY position for timer-playback, and **set to OFF when the timer is not used.**
- ⑫ **TAPE COUNTER and reset button**
The TAPE COUNTER provides a means of locating passages on the tape. When starting a recording, set the counter 000 by depressing the reset button.
- ⑬ **Display window**
According to the operation mode, each indicator lights or blinks.
- ⑭ **LINE IN/REC terminals**
Connect the Tape Rec terminals of your amplifier, etc. to these terminals using provided audio cables.
- ⑮ **LINE OUT/PLAY terminals**
Connect the Tape Play or AUX terminals of your amplifier, etc. to these terminals using provided audio cables.
- ⑯ **Power cord**
Plug this into the wall outlet or AC outlet of the amplifier, etc.

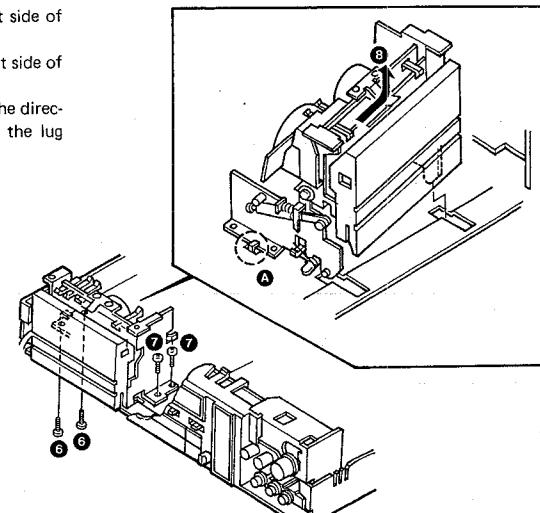
DISASSEMBLY FOR REPAIR

REMOVING THE FRONT PANEL, MECHANISM ASS'Y, MAIN UNIT, AND FRONT NOSE UNIT (ESCUTCHEON)

1. Remove the screw at the side of the case.
2. Remove the two screws at the rear of the case, and remove the case.
3. Remove the seven screws (1) retaining the front panel.
4. Remove the two screws (2) retaining the power switch and take it out.
5. Take off the counter belt (3).
6. Remove the two lug located on the top of the front panel (4).
7. Take the front panel off (5).

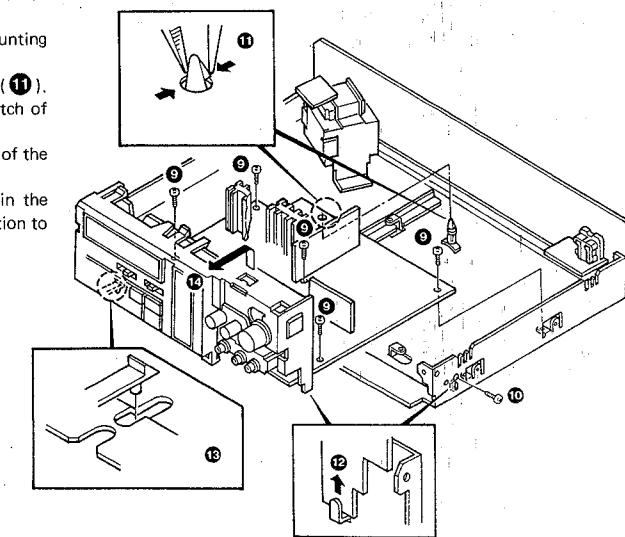


8. Remove the two screws (6) retaining the left side of the mechanism ass'y (D40-0560-05).
9. Remove the two screws (7) retaining the right side of the mechanism ass'y.
10. Take the mechanism ass'y out by pulling it in the direction of the arrow (8) paying attention to the lug (A).

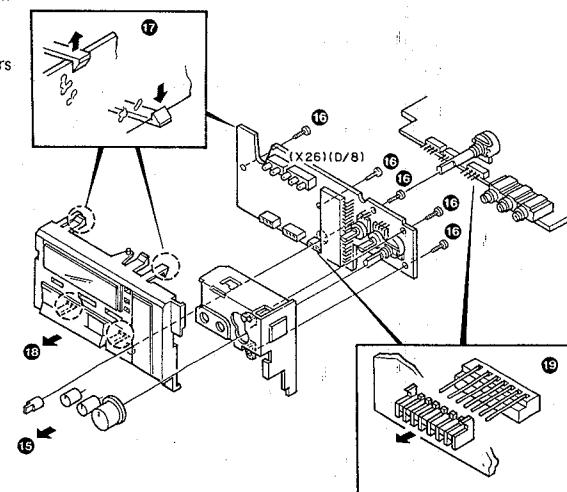


DISASSEMBLY FOR REPAIR

11. Remove the five screws (9) retaining the main unit : CASSETTE UNIT (X26-1172-71) (A/8).
12. Remove the screw (10) retaining the unit mounting hardware, located on the right side of the chassis.
13. Take out the unit holder retaining the main unit (11).
14. Take the unit mounting hardware out of the notch of the chassis (12).
15. Remove the protrusion located on the lower side of the escutcheon from the chassis (13).
16. Take the front nose section out by pulling it in the direction of the arrow (14) paying close attention to it.

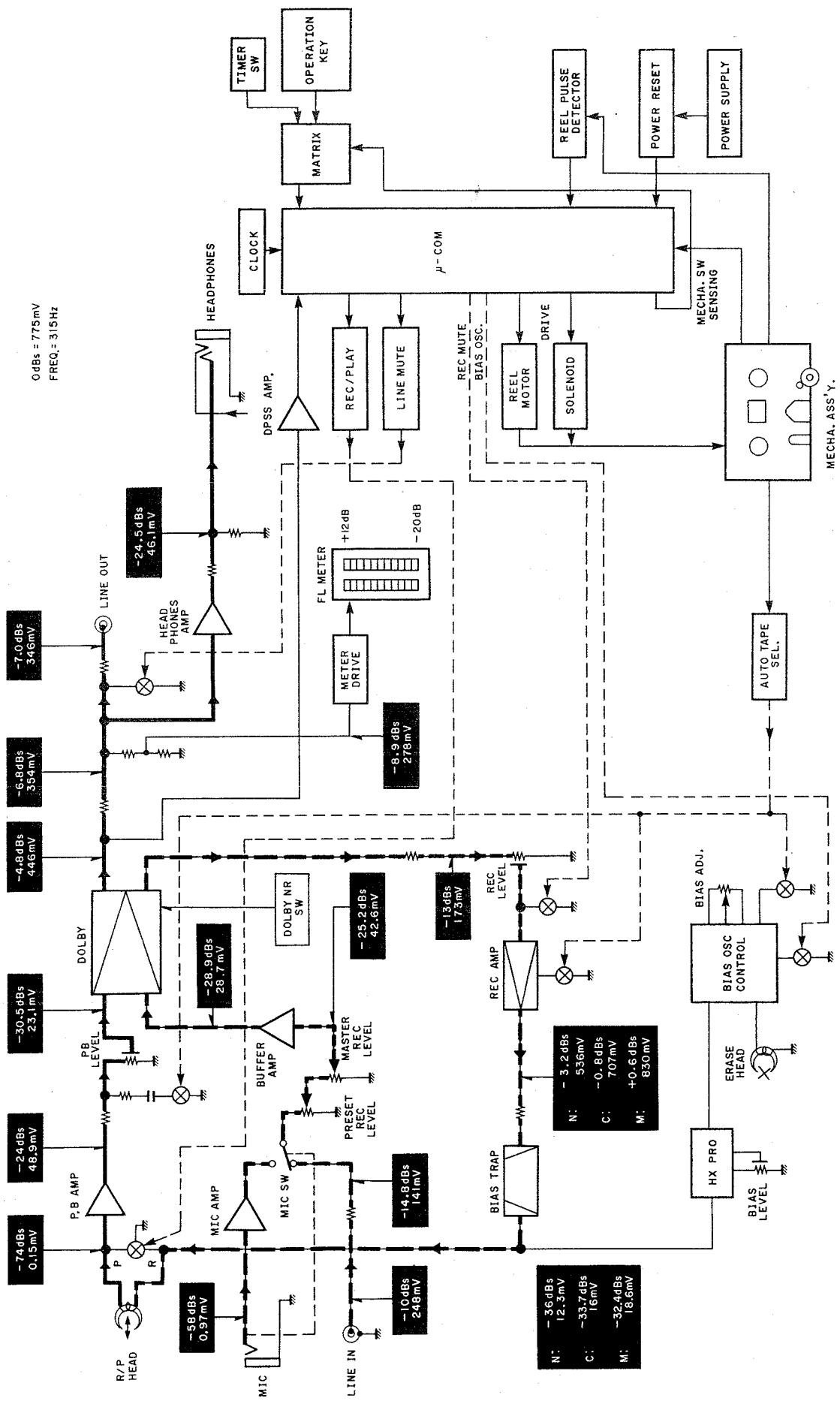


17. Take the four knobs off (15).
18. Remove the five screws (16) retaining the front nose unit : CASSETTE UNIT (X26-1172-71)(D/8).
19. Remove the four lugs located on the top and bottom of the escutcheon (17).
20. Take off the escutcheon (18).
21. Disconnect the front nose from the connectors of the main unit(19).
22. Now the front nose unit can be completely removed.



KX-550HX

BLOCK/LEVEL DIAGRAM



KX-550HX(E)

CIRCUIT DESCRIPTION

Description of components

CASSETTE UNIT (X26-1172-71)

Component	Use/Function	Operation/Condition/Compatibility		
IC1	Head select switch	Controlled by the signal output from R/P control pin 12 of the microprocessor (IC8) and the signal output from R/P control pin 4 of the inverter (IC7).	Mode	IC1 pins 1, 14
		REC, REC PAUSE	H	L
		OTHERS	L	H
				H : 5V L : 0V
IC2	Playback equalizer amp			
IC3	Microphone amp			
IC4	Recording equalizer amp			
IC5	+ 15V power supply	Stabilized power supply for signal circuit amp.		
IC6	Reel motor drive			
IC7	Inverter	Control signal logic inversion, and microprocessor clock oscillator.		
IC8	Microprocessor			
IC9	Level meter drive			
Q1, Q2	Time constant select for playback	ON when a CrO ₂ or Metal tape is loaded.		
Q3, Q4	Playback mute	ON when in REC or REC PAUSE mode.		
Q5	Dolby R/P select	OFF when in REC or REC PAUSE mode, ON when in other modes.		
Q6	+ 12.5V power supply	Stabilized power supply for Dolby circuit.		
Q7, Q8	MPX filter switch	OFF when Dolby is deactivated, ON when Dolby B/C is activated.		
Q9, Q10	Record peaking frequency select switch	OFF when a Metal tape is loaded, ON when a Normal or CrO ₂ tape is loaded.		
Q11, Q12	Recording equalizer select switch	ON when a CrO ₂ tape is loaded, OFF when a Normal or Metal tape is loaded.		
Q13, Q14	Recording equalizer select switch	ON when a Metal tape is loaded, OFF when a Normal or CrO ₂ tape is loaded.		
Q15, Q16	Record mute	OFF when in REC or REC PAUSE mode, ON when in other modes.		
Q17	DPSS sensor	ON when in STOP or CUE mode, OFF when in other modes.		
Q18, Q19	DPSS amp			
Q20	DPSS comparator			
Q21	Auto tape selector	ON when a Metal tape is loaded, OFF when a Normal or CrO ₂ tape is loaded.		
Q22	Auto tape selector	ON when a CrO ₂ tape is loaded, OFF when a Normal or Metal tape is loaded.		
Q23, Q24	Line mute	ON when in STOP, FF, REW, PLAY or PAUSE mode, OFF when in other modes.		
Q25, Q26	Headphone amp			
Q27	Bias oscillator level control	ON when a Normal or CrO ₂ tape is loaded, OFF when a Metal tape is loaded.		
Q28	Bias oscillator level control	ON when a Normal tape is loaded, OFF when a CrO ₂ or Metal tape is loaded.		
Q29	Bias ON/OFF switch	OFF when in REC or REC PAUSE mode, ON when in other modes.		
Q31	+ 12V power supply	For cassette mechanism drive, + 12V stabilized power supply.		
Q32	+ 5.6V power supply	Power supply for digital circuits, such as the microprocessor, etc.		
Q33, Q34	Reset circuit	Outputs a low signal, for the transition when POWER is turned ON or OFF, to reset the microprocessor.		
Q35	Capstan motor drive	ON when in REC, REC PAUSE or PLAY mode, OFF when in other modes.		
Q36	Line mute drive	OFF when in PLAY, REC or REC PAUSE mode, ON when in other modes.		
Q37	REC mute drive	OFF when in REC or REC PAUSE mode, ON when in other modes.		
Q39	Reel pulse detector	Take-up pulse.		
Q40	Solenoid drive	ON when kicked, OFF when in other modes.		
Q41	Solenoid drive	ON when solenoid is driven, OFF when in other modes.		
Q42, Q43	Buffer amp			

BIAS OSC UNIT (X87-1190-00)

Component	Use/Function	Operation/Condition/Compatibility	
IC1	HX-PRO IC		
Q1	Bias oscillator	Bias oscillator for erase head.	
Q2	Bias oscillator control	Bias oscillator level control for recording.	

DOLBY UNIT (W02-0693-05)

Component	Use/Function	Operation/Condition/Compatibility	
IC1	Dolby B/C IC		

CIRCUIT DESCRIPTION

DOLBY HX-PRO SYSTEM

Improvement of Bias with the Dolby HX-PRO System

The DOLBY HX-PRO system is designed to vary the AC bias so that the bias components which are affected by the audio signal can be compensated sequentially. This system is used to control the bias in the servo system so that the effective bias amount (consisting of the "AC bias" and "audio signal") which is actually applied to the head is controlled at a fixed level.

When this system is used, the low and high frequency adjustments, which respectively require an appropriate compromise so that the optimum recording frequency response of a single frequency is obtained, are made quite easily.

Also, the output drop due to self-bias at high frequencies is eliminated. This results in a flat response over a widened high frequency range. Fig. 1 shows an example of the improvement in the frequency response.

Outline of μ PC1297CA (X87-1190-00 : IC1)Dolby HX-PRO System and Construction/Operation of the μ PC1297CA

The system construction diagram is shown in Fig. 2 and the outline of operation is shown in Fig. 3. The effective bias is detected at the edge of the tape head. The high-frequency components (more than 10kHz) are extracted from the detected signal by the filter, and converted into a DC voltage. The resultant voltage is compared with the reference voltage for setting the bias amount, and the AC bias is controlled by the VCA (Voltage Controlled Amplifier) circuit so that a constant bias is obtained. By switching the reference voltage, the bias level can be set for each type of tape used.

Dolby HX-PRO System Circuit

The μ PC1297CA is an IC which control the effective bias amount that is applied to the recording head in the tape deck. "HX" stands for Headroom Extension. With this system, the dynamic range is greatly extended to the high frequencies, while the high frequency response range is improved.

Features

- Wider power voltage range. $V_{cc} = 8\sim15\sim18V$.
- Two-channel Dolby HX-PRO system provided.

Explanation of pin name

Pin No.	Symbol	Pin name	Pin No.	Symbol	Pin name
1	VST	Reference power supply pin	10	VIN(O)	Bias oscillator input pin
2	VR1	Comparator reference pin 1	11	VOUT22	VCA output pin 21
3	VIN(R1)	Signal input pin 1	12	VOUT21	VCA output pin 22
4	PH1	Peak hold capacitor pin 1	13	COUT2	Comparator output pin 2
5	CIN1	Comparator input pin 1	14	CIN2	Comparator input pin 2
6	COUT1	Comparator output pin 1	15	PH2	Peak hold capacitor pin 2
7	VOUT11	VCA output pin 11	16	VIN(R2)	Signal input pin 2
8	VOUT12	VCA output pin 12	17	VR2	Comparator reference pin 2
9	GND	GND (ground) pin	18	Vcc	Power supply pin

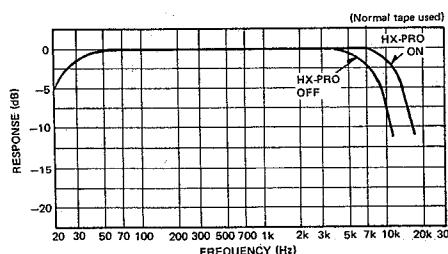


Fig. 1 Improvement example of the tape output frequency response with Dolby HX-PRO

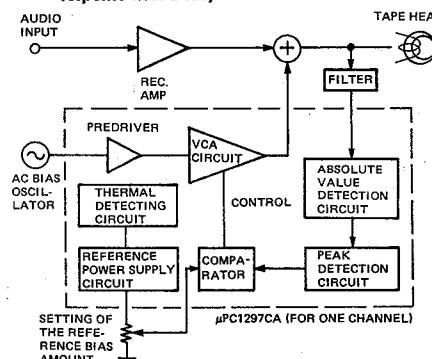


Fig. 2 System configuration of Dolby HX-PRO

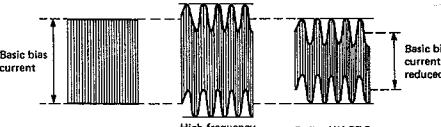


Fig. 3 Operation principle of Dolby HX-PRO

- Lower 2nd harmonics distortion. $-70dB$ TYP.
- Bias level can be set for each type of head used.
- Thermal detecting protection circuit built-in.
- Packaged in an 18-pin shrink DIP (dual inline package).

CIRCUIT DESCRIPTION

Microprocessor M50757-403SP (X26-1172-71 : IC8)

• Terminal connection diagram

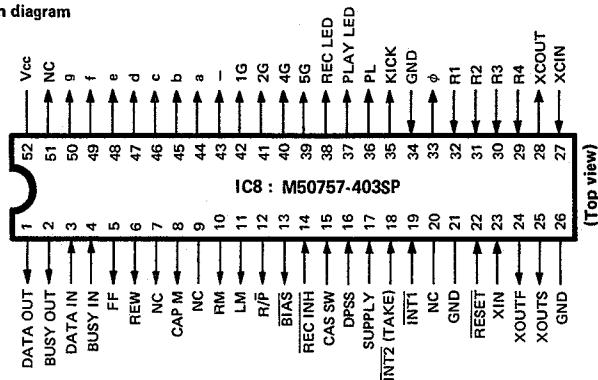


Fig. 4

• Explanation of terminals

Terminal No.	Terminal name	I/O	Functions
1	DATA OUT	—	Not used.
2	BUSY OUT	—	Not used.
3	DATA IN	I	Serial data input for sync.
4	BUSY IN	I	BUSY data input for sync.
5	FF	O	Reel motor drive. "H" in FWD direction, "L" in other directions.
6	REW	O	Reel motor drive. "H" in RVS direction, "L" in other directions.
7	NC	—	Not used.
8	CAP M	O	Capstan/Reel motor voltage select. "L" when ON.
9	NC	—	Not used.
10	RM	O	REC MUTE output. "H" when REC MUTE ON.
11	LM	O	MUTE output. "H" when MUTING ON.
12	R/F	O	REC/PLAY select. "H" when in Recording mode.
13	BIAS	O	Bias oscillator ON/OFF. "H" when Bias OFF.
14	REC INH	I	Recording inhibition input. "H" when in Recording inhibition.
15	CAS SW	I	Cassette half detect input. "H" when half detected.
16	DPSS	I	Inter-music detect when DPSS used.
17	SUPPLY	I	Supply reel pulse input (for linear counter).
18	INT2 (TAKE)	I	Take-up reel pulse input.
19	INT1	—	Not used (pull-up).
20	NC	—	Not used.
21	GND	—	Ground terminal.
22	RESET	I	Reset input. "L" when reset.
23	XIN	I	System clock input (4MHz).
24	XOUTF	—	Not used.
25	XOUTS	—	Not used.
26	GND	—	Ground terminal. (0V).
27	XCIN	—	Not used (pull-up).
28	XCOUT	—	Not used (pull-down).
29	R4	I	Dynamic key input.
30	R3	I	Dynamic key input.
31	R2	I	Dynamic key input.
32	R1	I	Dynamic key input.
33	φ	—	Not used.

CIRCUIT DESCRIPTION

Terminal No.	Terminal name	I/O	Functions
34	GND	—	Ground terminal (0V).
35	KICK	O	Mechanism-plunger starting. "H" when plunger ON.
36	PL	O	Mechanism-plunger preservation. "H" when preservation ON.
37	PLAY	O	PLAY LED drive "H" when ON.
38	REC	O	REC LED drive "H" when ON.
39	5G	O	Digit output for FL, KEY input. "H" when FL ON.
40	4G	O	Digit output for FL, KEY input. "H" when FL ON.
41	2G	O	Digit output for FL, KEY input. "H" when FL ON.
42	1G	O	Digit output for FL, KEY input. "H" when FL ON.
43	—	—	Not used. (pull-down).
44~50	a~g	—	Not used.
51	NC	—	Not used.
52	Vcc	—	5V.

• Key matrix

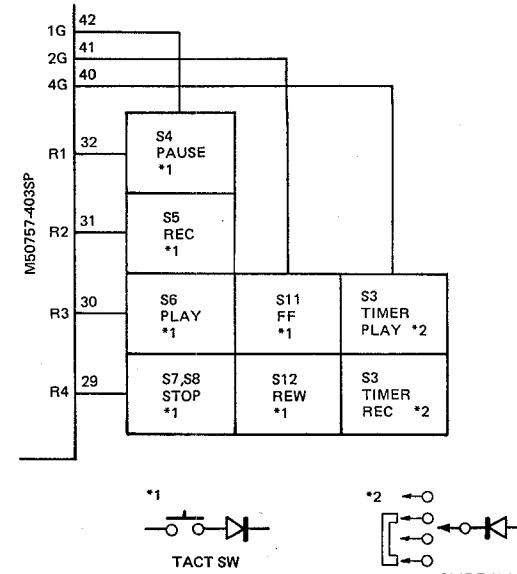


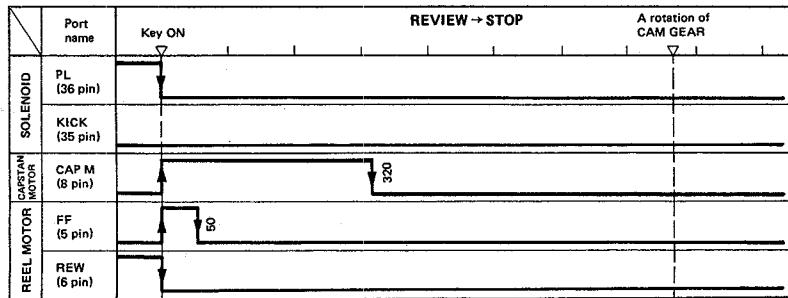
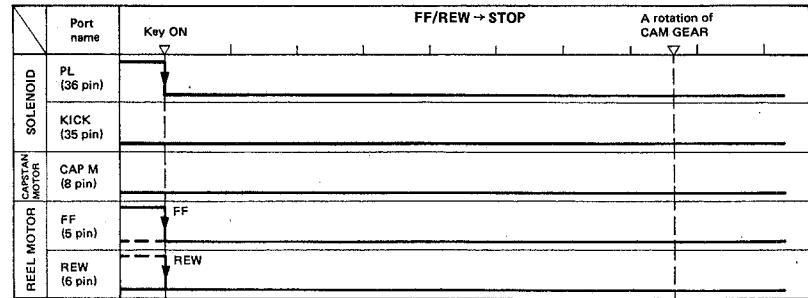
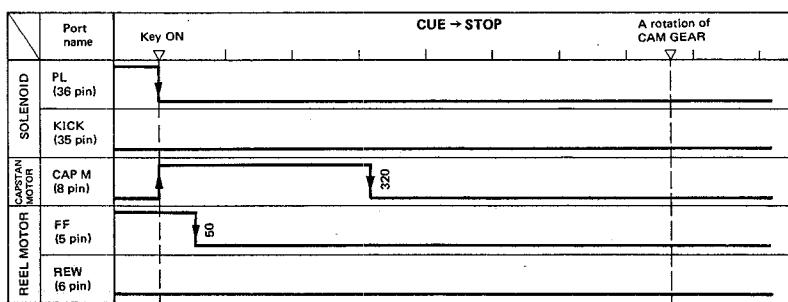
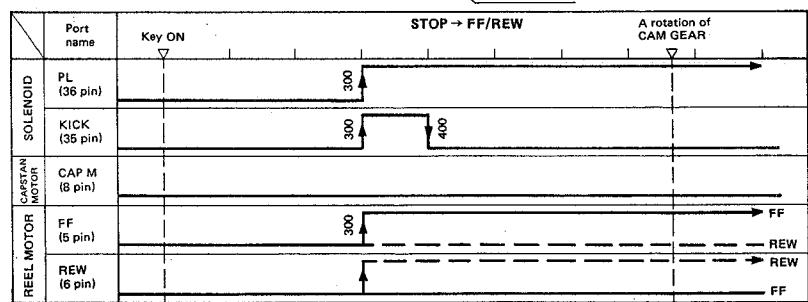
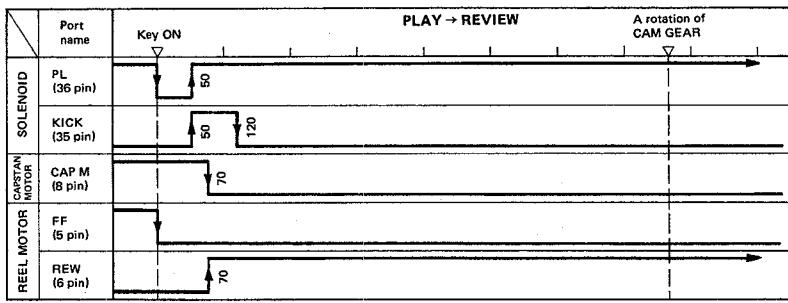
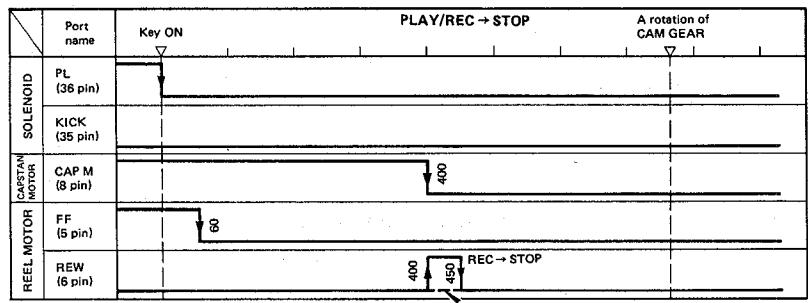
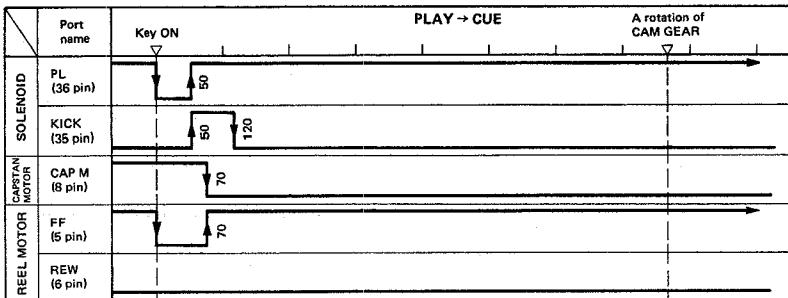
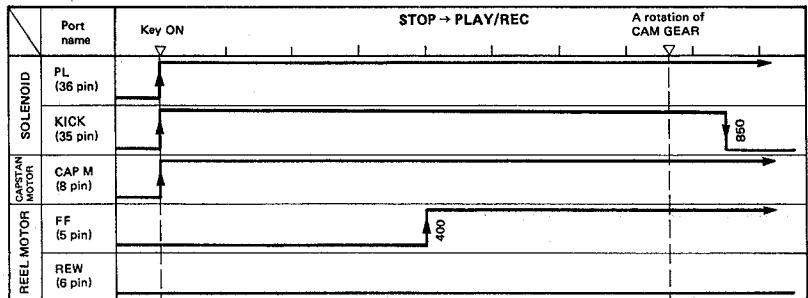
Fig. 5

KX-550HX KX-550HX

CIRCUIT DESCRIPTION

CIRCUIT DESCRIPTION

● Timing chart



MECHANISM DESCRIPTION

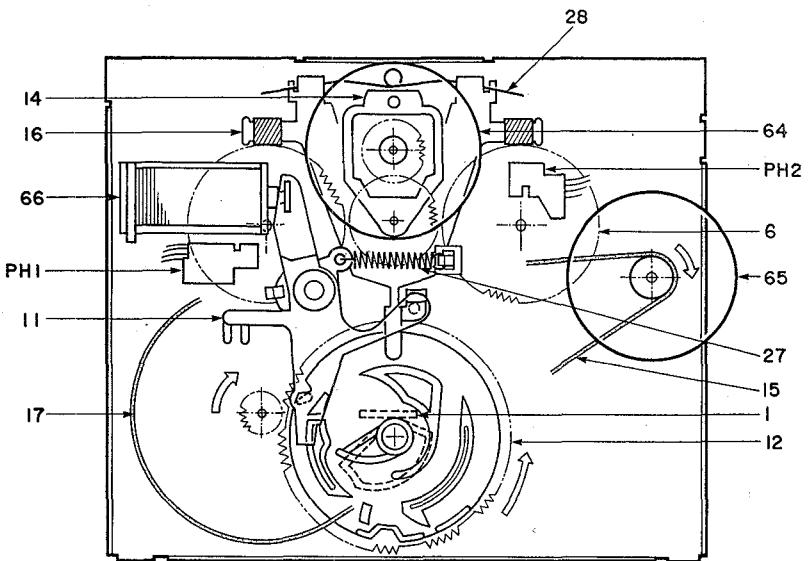


Fig. 1 Parts layout (Rear side view)

Pinch Roller Pressure	250~350g
Take up Torque	30~70g·cm (2.5V)
FF, REW, torque	80~180g·cm (3.3V)
Back tension torque	2.26g·cm

Note : Numbers in the figures correspond that in the parts list on page 37.

Mechanism operation description

1. STOP to PLAY/REC Operation (See Fig. 2 to Fig. 5)

- 1-1. Press the PLAY key.
- 1-2. By a signal from the microprocessor, the CAPSTAN MOTOR (65) rotates, and at the same time, the SOLENOID (66) turns ON.
- 1-3. PLAY ARM (11) swings in the direction of the arrow **A**.
- 1-4. The pin **B** of PLAY ARM is released from the stopper section **C** of the CAM GEAR (12).
- 1-5. The CAM GEAR rotates slightly and engages with the gear of the FLYWHEEL (17).

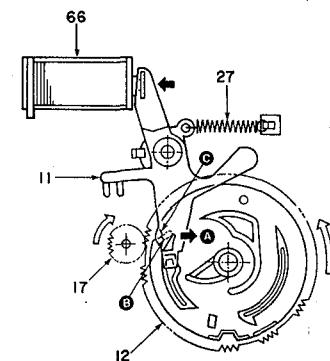


Fig. 2 (Rear side view)

MECHANISM DESCRIPTION

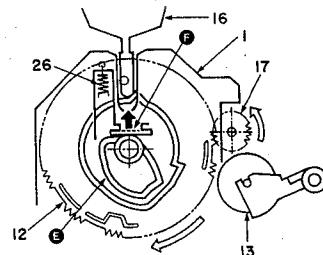


Fig. 3 (Front side view)

1-6. The bending section **F** of the HEAD BASE (1) is lifted by the cam **E** of the CAM GEAR and begins moving upward.

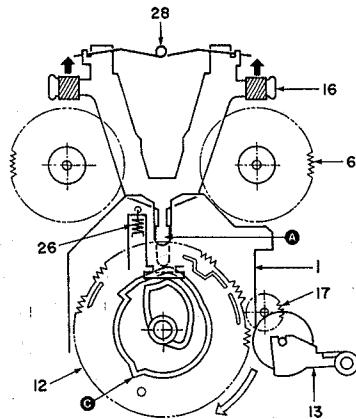


Fig. 4 PLAY status (Front side view)

1-8. When the CAM GEAR is rotated by about 3/4 of a revolution, the pin **B** of PLAY ARM comes into contact with the stopper **D** of the CAM GEAR.

1-9. At this time, the non-tooth section of the CAM

GEAR reaches the gear of the FLYWHEEL, and the CAM GEAR stops rotating.

1-10. When the rotation of the CAM GEAR stops, the HEAD BASE comes into the PLAY position.

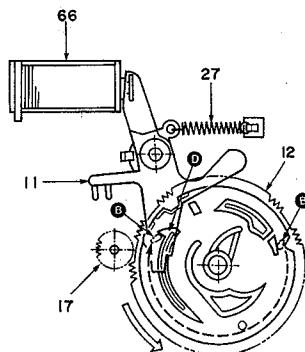


Fig. 5 (Rear side view)

MECHANISM DESCRIPTION

2. PLAY/REC to STOP Operation (See Fig. 6, Fig. 7)

- 2-1. Press the STOP key.
- 2-2. By a signal from the microprocessor, the SOLENOID (66) turns OFF.
- 2-3. The PLAY ARM (11) is swung in the direction of the arrow **A** by the SPRING (27), and the pin **B** is released from the stopper **D**.
- 2-4. The CAM GEAR is slightly rotated by the HEAD BASE (1) in the direction of the arrow **D**.

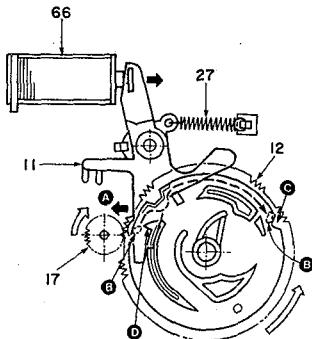


Fig. 6 (Rear side view)

- 2-5. The CAM GEAR engages with the gear of the FLY-WHEEL (17) and continues rotating.
- 2-6. When the pin **B** of the PLAY ARM comes into contact with the stopper **C** of the CAM GEAR, the CAM GEAR stops rotating.
- 2-7. By a signal from the microprocessor, the CAPSTAN MOTOR (65) stops and the deck enters STOP mode.
- 2-8. When the deck status changes from REC mode to STOP mode, the REEL MOTOR (64) rotates for 50msec. in the REW (rewind) direction to reverse the tape a little.

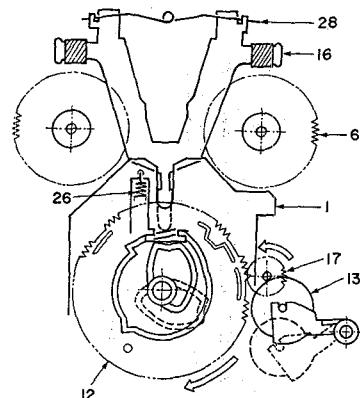


Fig. 7 (Front side view)

3. STOP to FF/REW Operation (See Fig. 8)

- 3-1. By a signal from the microprocessor, the SOLENOID (66) turns ON. At the same time, the REEL MOTOR (64) starts rotating in the correct direction. (FF: \Rightarrow CW, REW: \Rightarrow CCW)
- 3-2. The PLAY ARM (11) swings in the direction of the arrow **C**, and the BRAKE ASS'Y (16) is raised up by the pin **D**.
- 3-3. According to the rotating direction of the REEL MOTOR, the IDLER ASS'Y (14) is swung in the appropriate direction. (FF mode: \Rightarrow **B**, REW mode: \Rightarrow **A**)
- 3-4. When the gear of the IDLER ASS'Y engages with the gear of the REEL ASS'Y (6), the deck enters FF/REW operation mode.

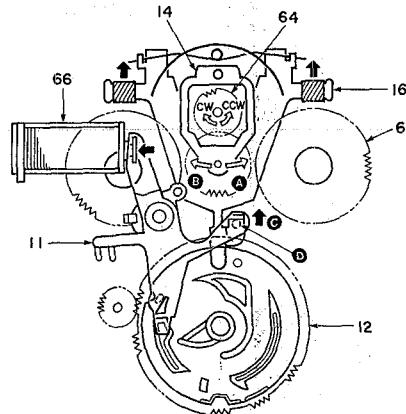


Fig. 8 (Rear side view)

MECHANISM DESCRIPTION

4. PLAY to CUE/REVIEW (REV) Operation (DPSS) (See Fig. 9, Fig. 10)

- 4-1. Press the FF/REW key during PLAY.
- 4-2. By a signal from the microprocessor, the SOLENOID (66) turns OFF.
- 4-3. The PLAY ARM (11) is swung in the direction of the arrow **A** by the SPRING (27), the pin **B** is released from the stopper **D**.
- 4-4. After 50msec, the SOLENOID is turned ON again.
- 4-5. The pin **E** of PLAY ARM passes by the internal

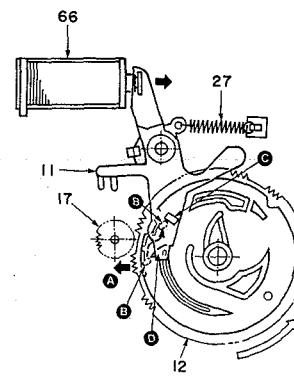


Fig. 9 (Rear side view)

orbit, and then comes into contact with the stopper **C** of the CAM GEAR.

- 4-6. The CAM GEAR stops rotating at a position where the HEAD BASE (1) is lowered to that position.
- 4-7. The PINCH ROLLER (13) is released from the CAPSTAN in accompanied with lowering movement of the HEAD BASE.
- 4-8. After a while, the CAPSTAN MOTOR (65) stops rotating, and at the same time, the REEL MOTOR (64) rotates in the appropriate direction (FF/REW) to activate the "CUE" and "REVIEW" operations.

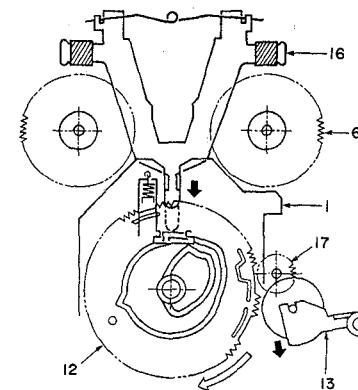


Fig. 10 CUE/REV status (Front side view)

KX-550HX KX-550HX

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION		TAPE: NORMAL, DOLBY: OFF, INPUT: LINE				0dBs = 0.775V	
I REC/PLAY HEAD							
[1]	DEMAGNETIZATION	—	—	POWER: OFF Remove the cassette door.	REC/PLAY head	Demagnetize the REC/PLAY head with a head demagnetizer.	
[2]	CLEANING	—	—	PLAY	REC/PLAY head erase head, capstan and pinch roller.	Clean the REC/PLAY head erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
[3]	AZIMUTH	(A) MTT-114 10kHz, -10dB	(B)	PLAY	Azimuth adjustment screw	Maximum output.	(a)
II DC MOTOR							
(1)	TAPE SPEED	(A) MTT-111 3kHz	(B)	PLAY	Trimming potentiometer in the DC motor	Adjust the tape speed so that a 3kHz signal is produced at the center of the tape.	(b)
III PC BOARD (X26-117X-XX, X87-1190-00)							
<1>	PLAYBACK LEVEL	(a) MTT-150 400Hz	(B)	PLAY	(X26-117X-XX) VR1 (L) VR2 (R)	Output level: -4.8dBs	
		(b) MTT-256 315Hz				Output level: -7.5dBs	
		(c) MTT-256U 315Hz				Output level: -3.5dBs	
<2>	BIAS CURRENT	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	Adjust REC LEVEL VR (MASTER, PRESET) so that the REC monitor output becomes -27dBs at 1kHz, then record and reproduce signal of 1kHz and 10kHz in alternation.	(X87-1190-00) VR1 (L) VR2 (R)	Adjust the bias current adjusting VR so that the playback level of the 10kHz signal is +0.5dB higher than that of the 1kHz signal when recording a 1kHz signal and a 10kHz signal alternately.	
<3>	RECORD LEVEL	(A) 1kHz, -30dBs	(B)	Record and reproduce a 1kHz signal under the conditions set in <2>	(X26-117X-XX) VR3 (L) VR4 (R)	Adjust the variable resistors so that a playback level of -27dBs is obtained.	

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETO -PHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION DU MAGNETOPHONE		TAPE: NORMAL, DOLBY: OFF, ENTREE: LINE					0dBs = 0.775V
I TETE D'ENREGISTREMENT/LECTURE							
[1]	DEMAGNETISATION	—	—	POWER: OFF Eloigner la porte.	Tete D'ENREGISTREMENT/LECTURE	Demagnetiser la tête avec un démagnétiseur de tête.	
[2]	NETTOYAGE	—	—	PLAY	Tete D'ENREGISTREMENT/LECTURE	Nettoyer la tête la tête d'effacement, le cabestan et le galetpresseur avec un coton-tige légèrement imbibé d'alcool.	
[3]	AZIMUT	(A) MTT-114 10kHz, -10dB	(B)	PLAY	Vis d'azimut	Sortie maximiser.	(a)
II MOTEUR CC							
(1)	VITESSE DE DEFILEMENT	(A) MTT-111 3kHz	(B)	PLAY	Résistance ajustable du moteur CC	Régler la vitesse de bande de façon qu'un signal de 3kHz soit produit au centre de la bande.	(b)
III PLAQUE IMPRIMEE (X26-117X-XX, X87-1190-00)							
<1>	NIVEAU DE LECTURE	(a) MTT-150 400Hz	(B)	PLAY	(X26-117X-XX) VR1 (G) VR2 (D)	Niveau de sortie: -4.8dBs	
		(b) MTT-256 315Hz				Niveau de sortie: -7.5dBs	
		(c) MTT-256U 315Hz				Niveau de sortie: -3.5dBs	
<2>	COURANT DE POLARISATION	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)		(X87-1190-00) VR1 (G) VR2 (D)	Régler REC LEVEL VR (MASTER, PRESET) de façon que la sortie de moniteur REC soit de -27dBs à 1kHz, puis enregistrer et reproduire des signaux de 1kHz et 10kHz en alternance.	Ajuster le courant de polarisation en ajustant VR pour que le niveau de lecture du signal 10kHz soit de +0.5dB supérieur à celui du signal 1kHz lors de l'enregistrement d'un signal 1kHz et d'un signal de 10kHz alternativement.
<3>	NIVEAU D'ENREGISTREMENT	(A) 1kHz, -30dBs	(B)		(X26-117X-XX) VR3 (G) VR4 (D)	Enregistrer et reproduire un signal de 1kHz dans les conditions précisées en <2>.	Ajuster les résistances variables de façon à obtenir un niveau de lecture de -27dBs.

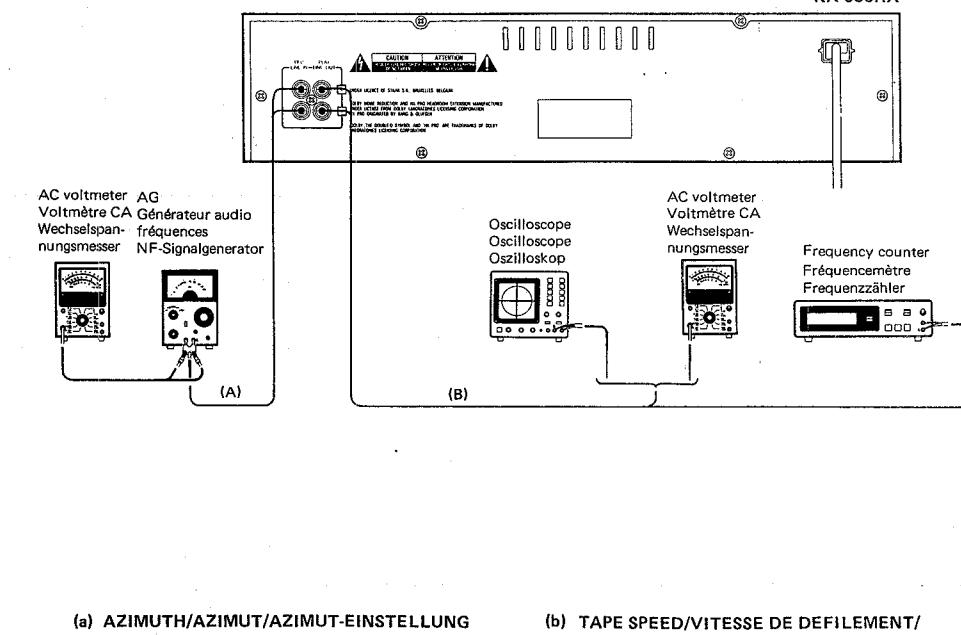
ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGERÄT-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
CASSETTE-DECK ABTEILUNG	TAPE: NORMAL, DOLBY: OFF, EINGANG: LINE				0dBs = 0,775V		
I AUFNAHME/WIEDERGABE-KOPF							
[1]	ENTMAGNETISIERUNG	--	--	POWER: OFF Den Kassettenfach deckel oben herausziehen.	AUFGNAHME/WIEDERGABE-Kopf mit einem Tonkopf Entmagnetisierungsrossel.		
[2]	REINIGUNG	--	--	PLAY	AUFGNAHME/WIEDERGABE-Kopf, Löschkopf, Tonwelle und Andruckrolle mit einem leicht mit Alkohol befeuchteten Wattebausch reinigen.		
[3]	AZIMUT-EINSTELLUNG	(A) MTT-114 10kHz -10dB	(B)	PLAY	Azimut-Einstellschraube	Maximale Ausgang. (a)	
II GLEICHSTROMMOTOR							
(1)	BANDGESCH-WINDIGKEIT	(A) MTT-111 3kHz	(B)	PLAY	Trimmer potentiometer am Gleichstrommotor	Die Bandgeschwindigkeit so justieren, daß ein 3kHz Signal auf der Mitte des Bands erzeugt wird. (b)	
III GEDRUCKTE SCHALTPLÄTE (X26-117X-XX, X87-1190-00)							
<1>	WIEDERGABE-PEGEL	(a) MTT-150 400kHz (b) MTT-256 315kHz (c) MTT-256U 315kHz	(B)	PLAY	(X26-117X-XX) VR1 (L) VR2 (R)	Ausgangspegel: -4,8dBs Ausgangspegel: -7,5dBs Ausgangspegel: -3,5dBs	
<2>	LEERLAUFSTROM	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)		(X87-1190-00) VR1 (L) VR2 (R)	Den Vormagnetisierungsstrom-Regelwiderstand so einstellen, daß der Wiedergabepiegel des 10kHz Signals um +0,5dB höher ist als der des 1kHz Signals, wenn ein 1kHz Signal und ein 10kHz Signal abwechselnd aufgenommen wurde.	
<3>	AUFGNAHMEPEGEL	(A) 1kHz, -30dBs	(B)		(X26-117X-XX) VR3 (L) VR4 (R)	Die Regelwiderstände so justieren, daß ein Wiedergabepiegel von -27dBs erzielt wird.	

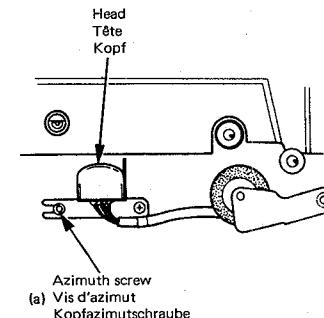
ADJUSTMENT/REGLAGE/ABGLEICH

SYSTEM CONNECTIONS/RACCORDEMENTS DU SYSTEME/SYSTEM-ANSCHLUSSE

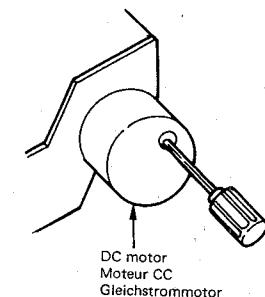
KX-550HX

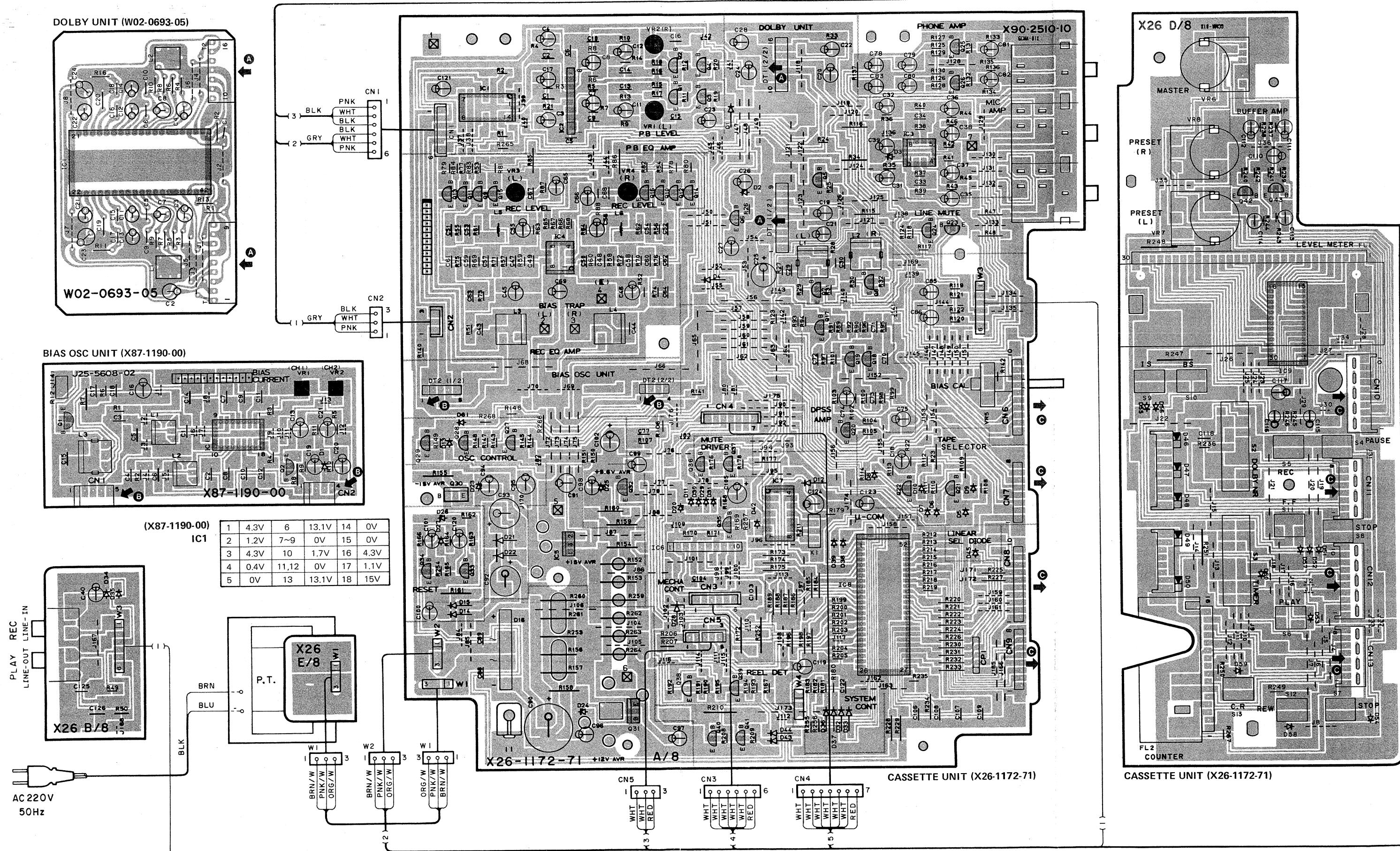


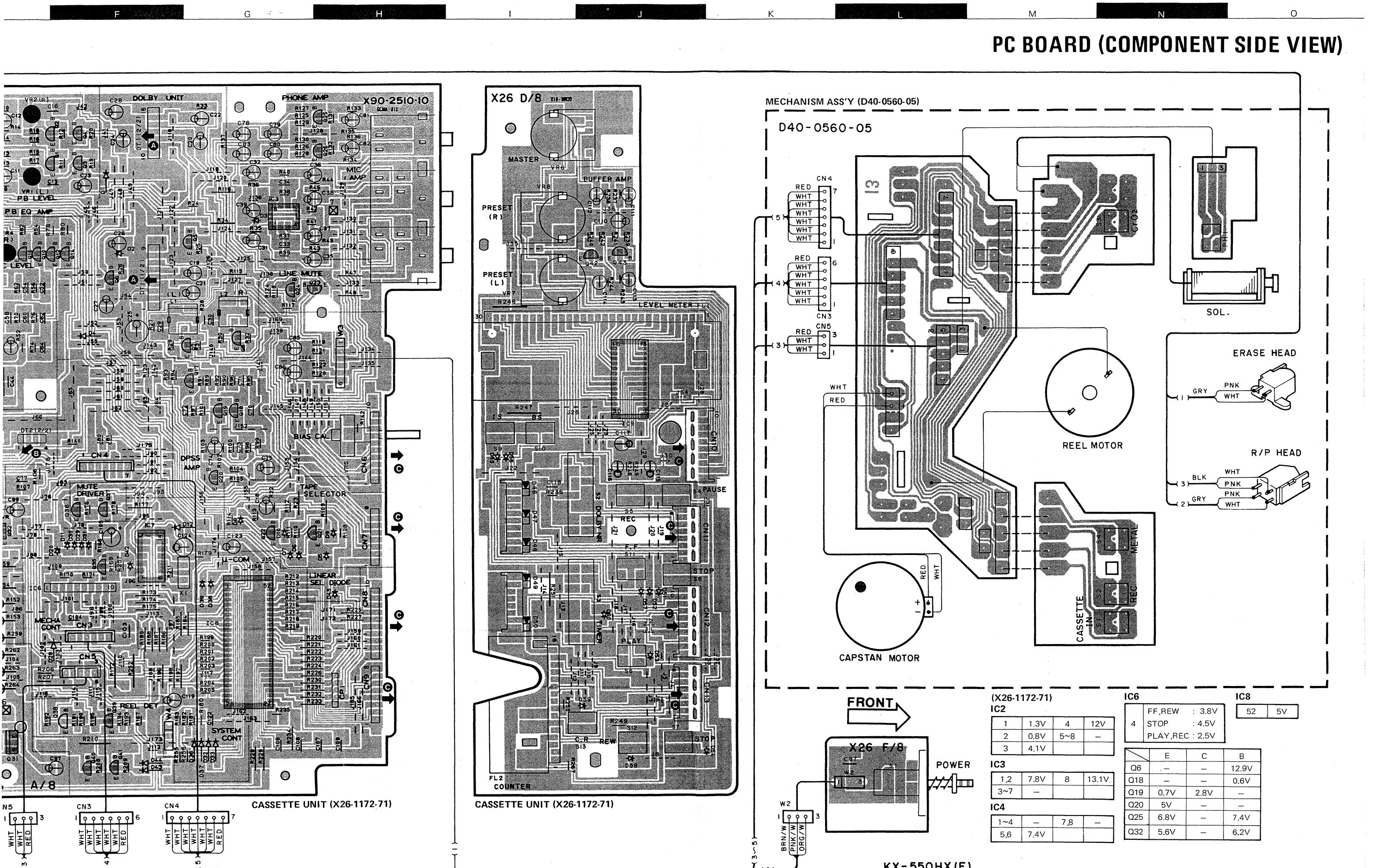
(a) AZIMUTH/AZIMUT/AZIMUT-EINSTELLUNG



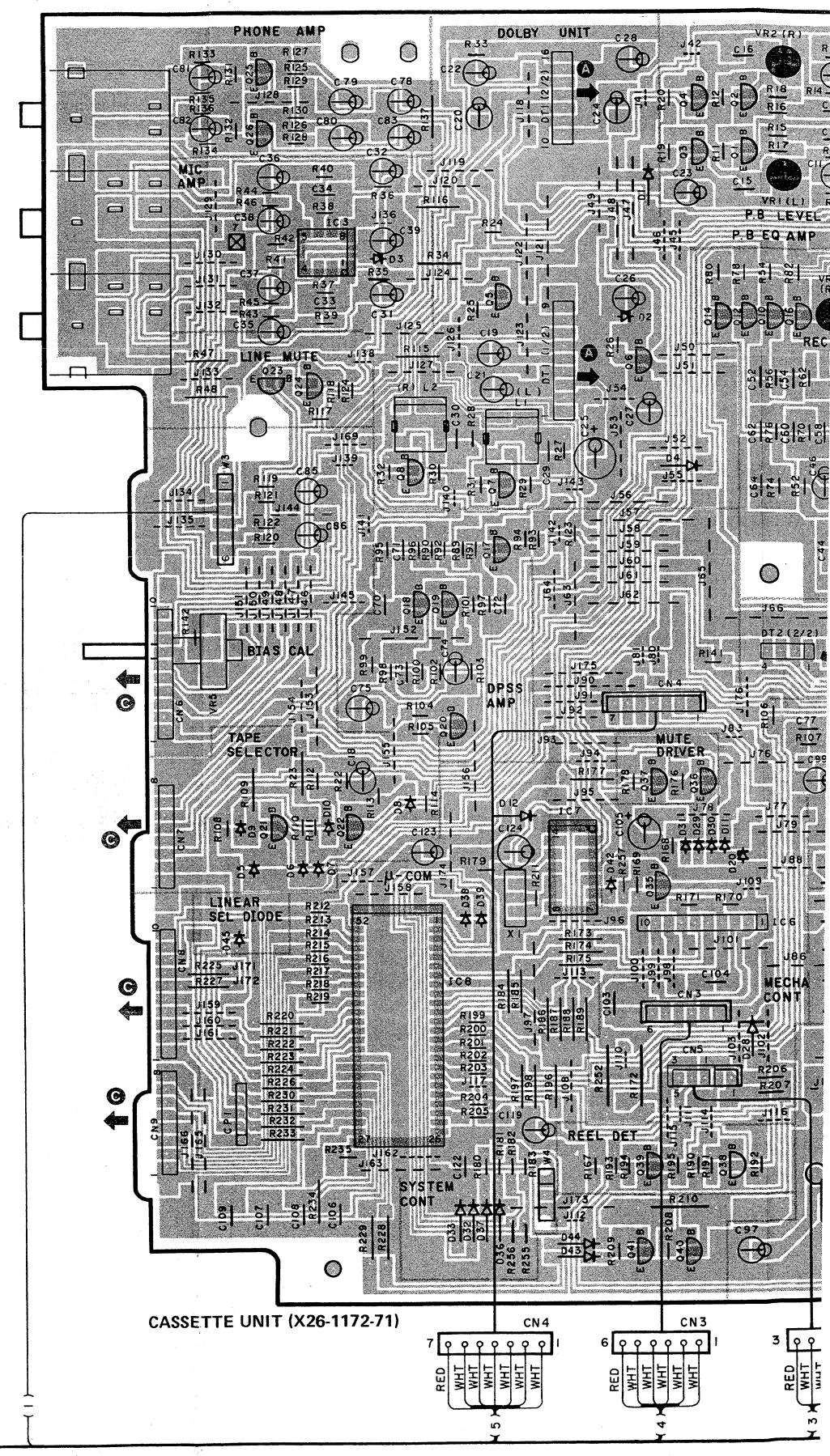
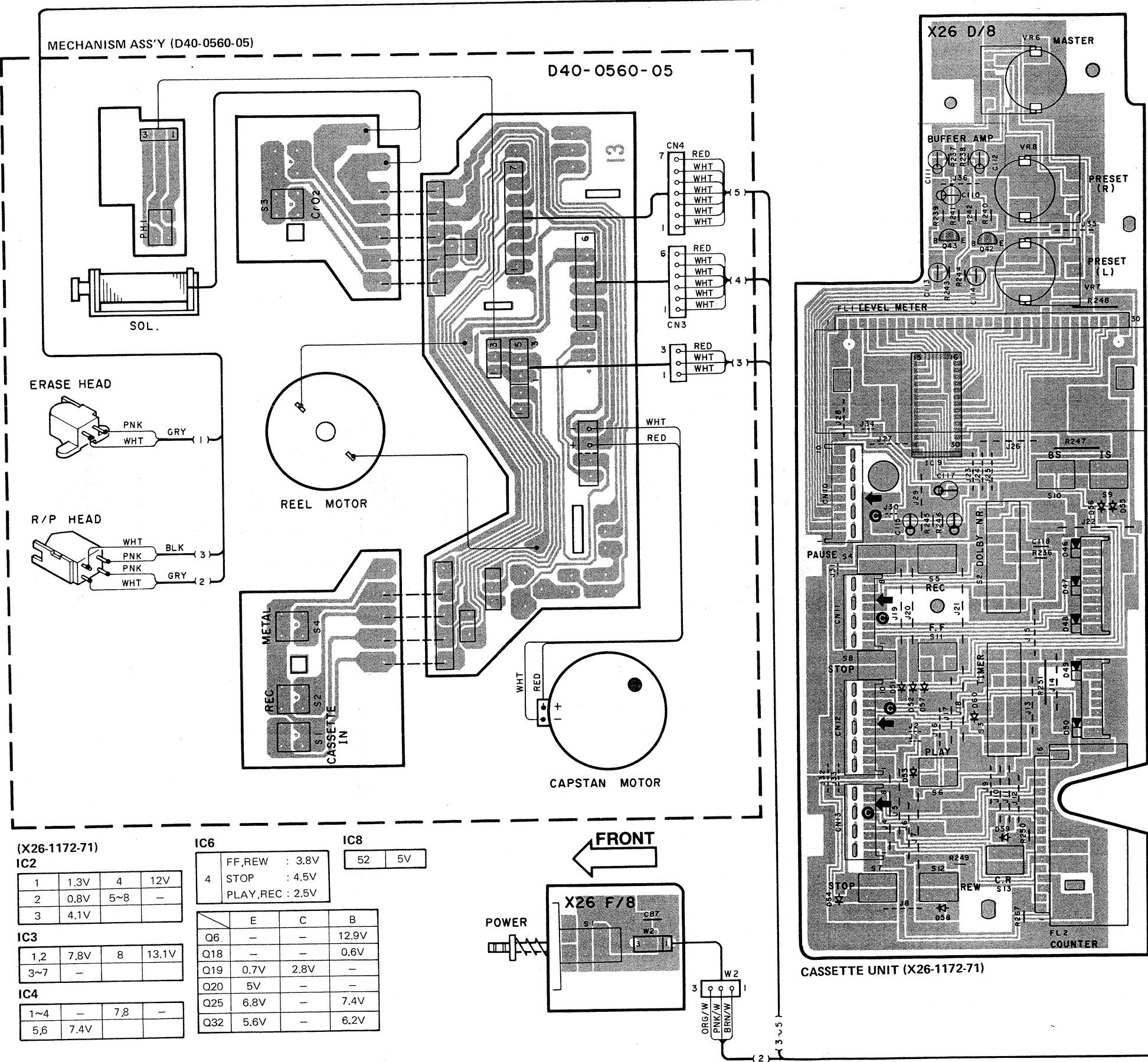
(b) TAPE SPEED/VITESSE DE DEFILEMENT/BANDGESCH-WINDIGKEIT



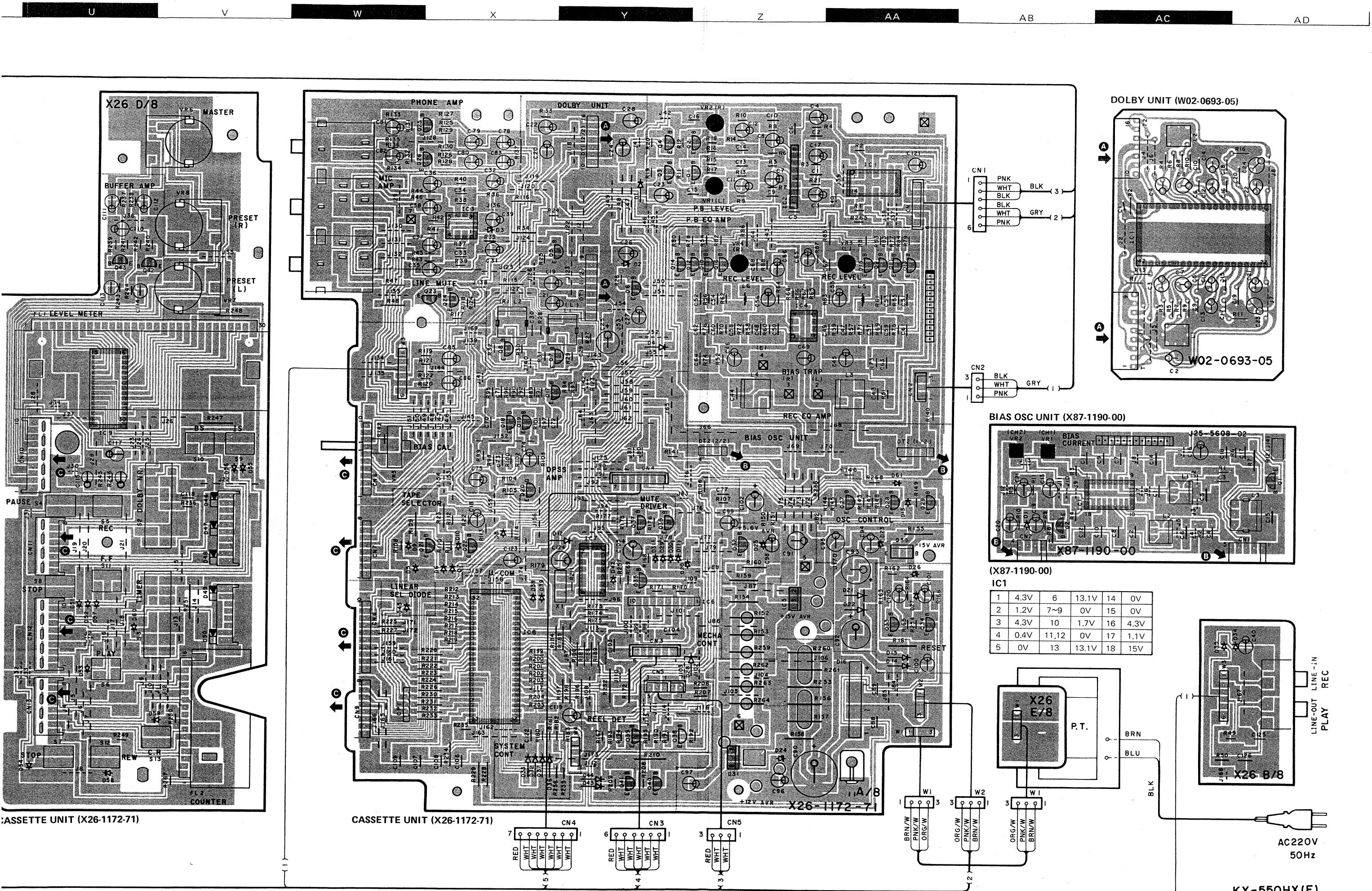


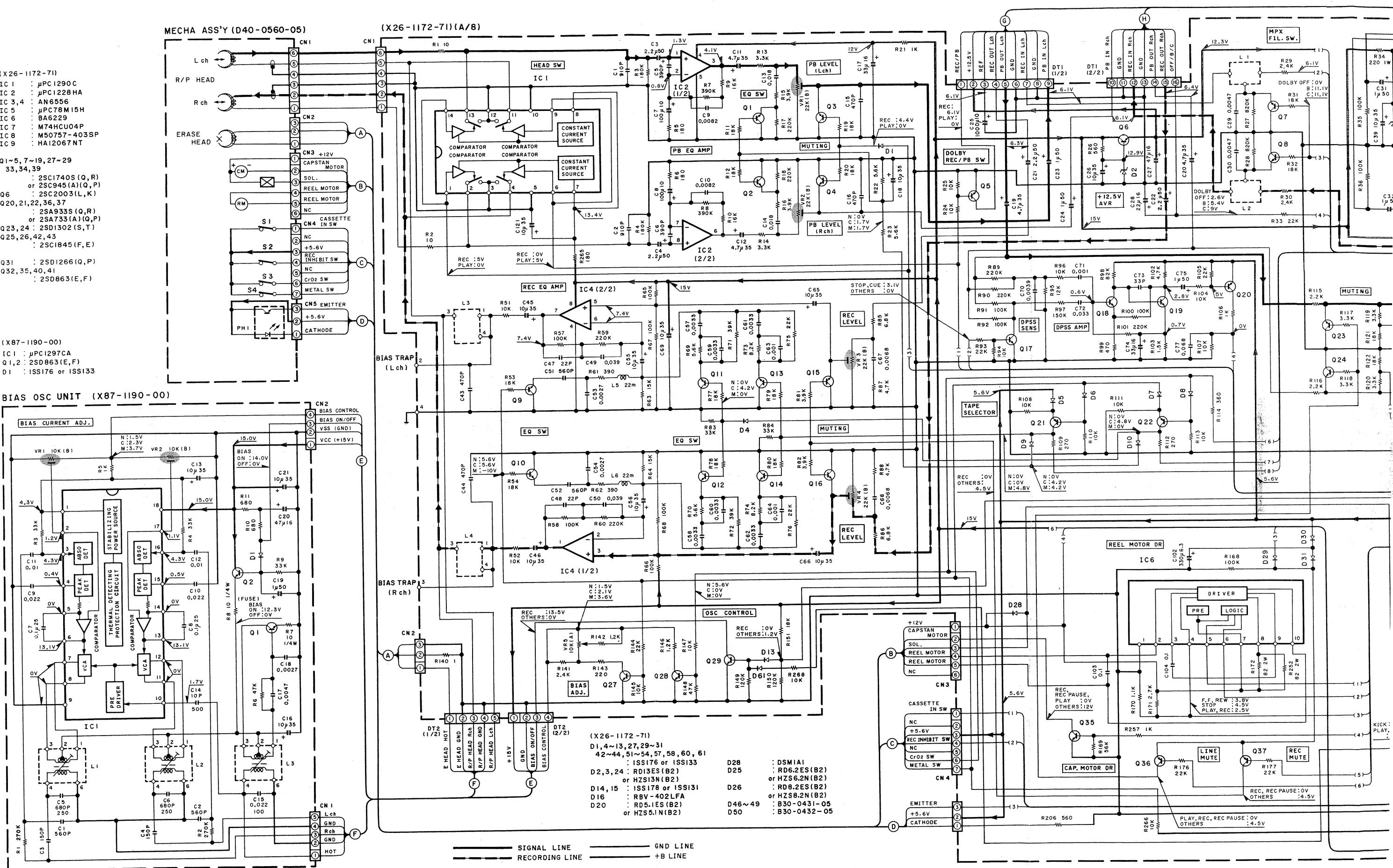


PC BOARD (FOIL SIDE VIEW)

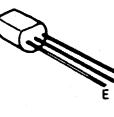


Refer to the schematic diagram for the values of resistors and capacitors.

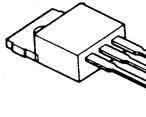




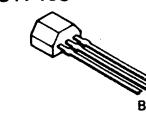
2SA733(A)
2SC1845
2SC2003
2SC945(A)
2SD1302
2SD863



2SD1266



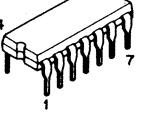
2SA933S
2SC1740S



M74HCU



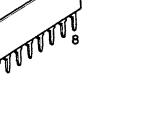
μ PC1290



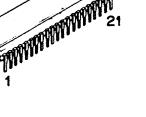
AN6556



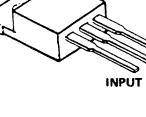
228HA



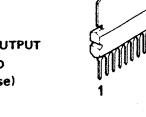
2088NT



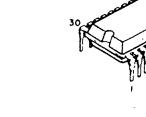
78M15H



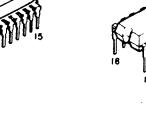
B462



HAT2007NT



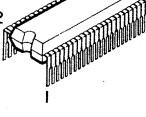
MCT2

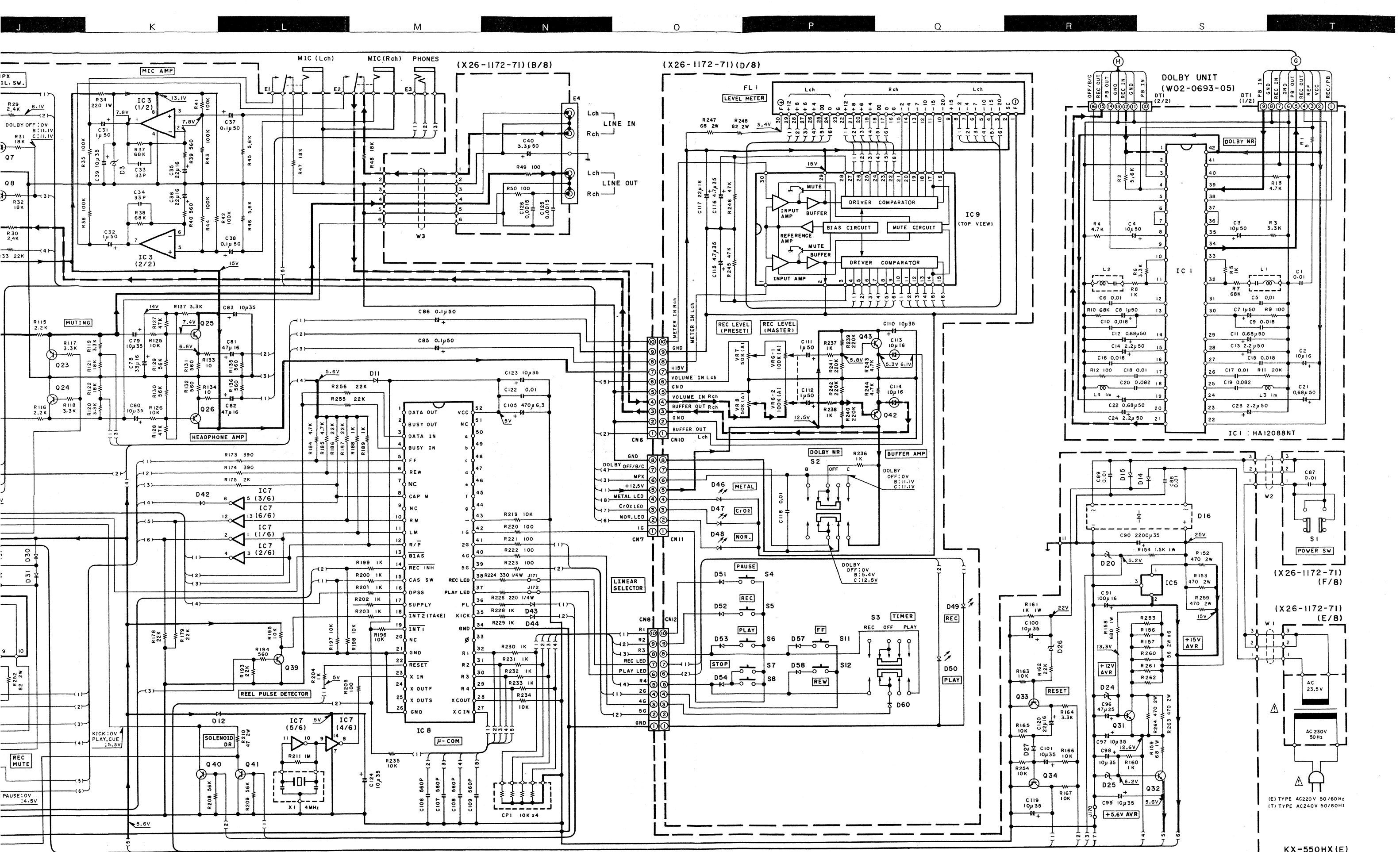


10



27





• DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

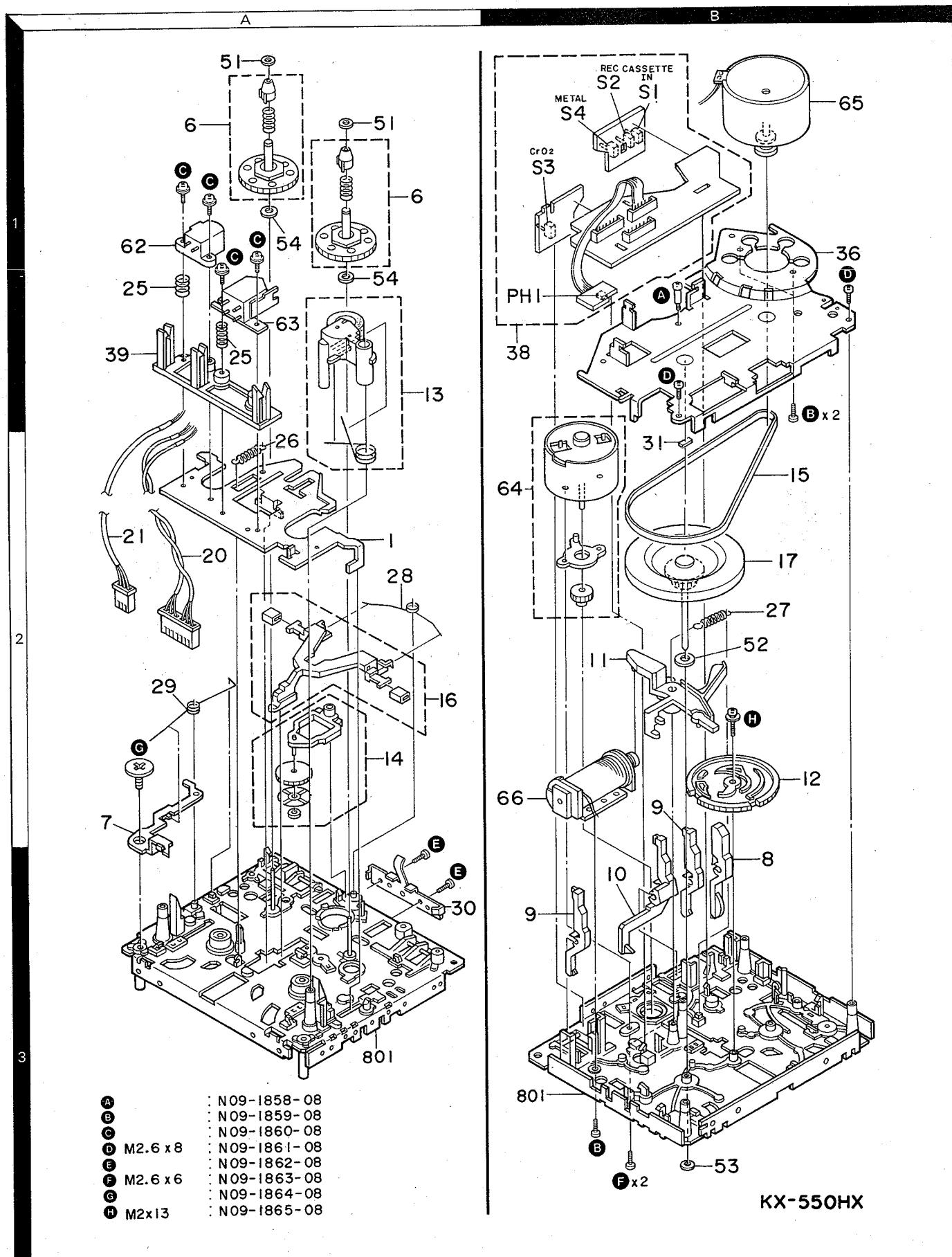
• Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Une cassette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les tensions c.c. du circuit de polarité doivent être mesurées. L'appareil étant en mode d'enregistrement.

• Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahmefähigkeit gemessen.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KX-550HX
KENWOOD

EXPLODED VIEW (MECHANISM)

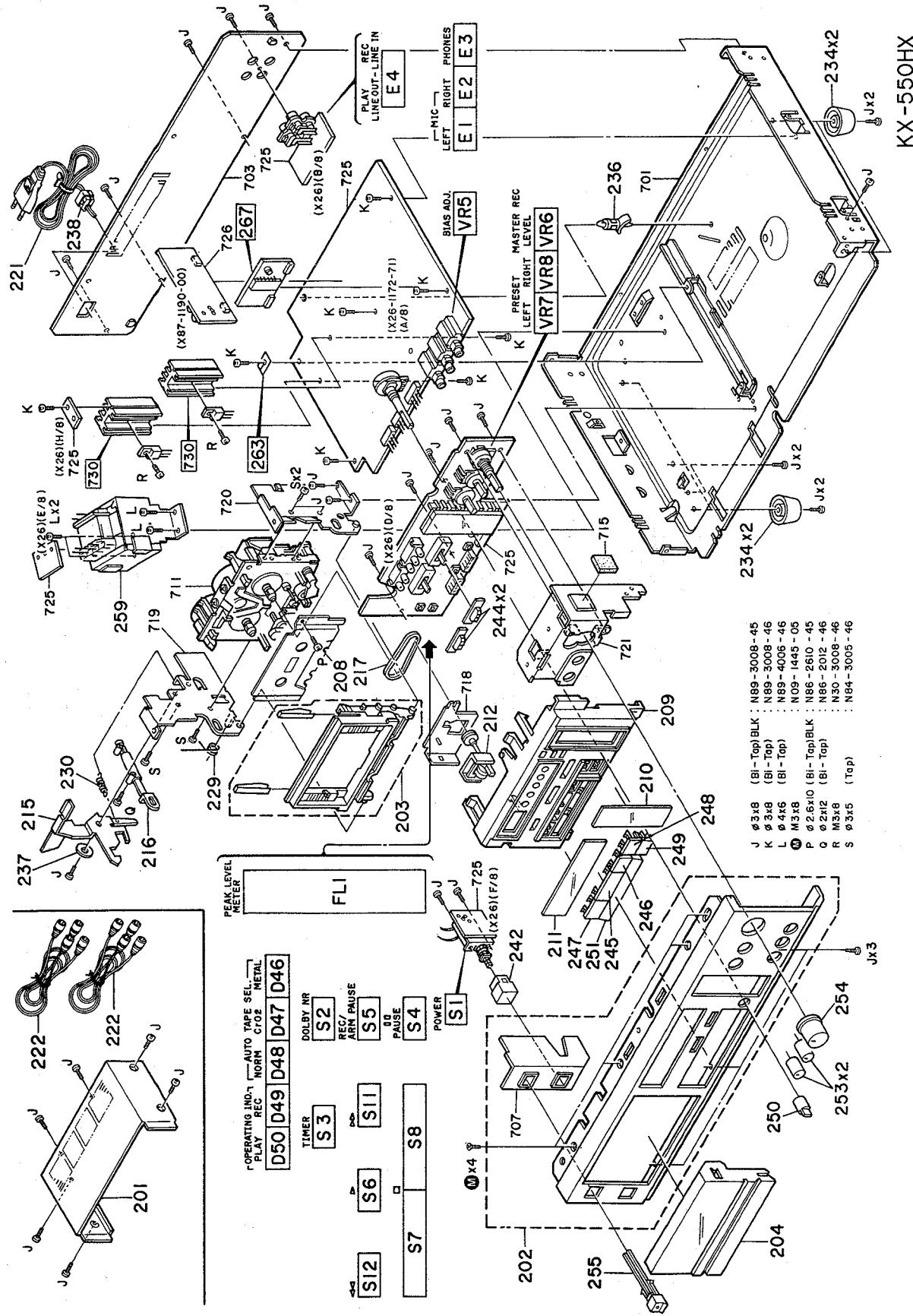


KX-550HX

Parts with the exploded numbers larger than 700 are not supplied.

KX-550HX

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

KX-550HX KX-550HX

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名／規格	仕向	備考
KX-550HX						
201	1C	*	A01-1547-01	METALLIC CABINET		
202	2C	*	A20-5213-03	PANEL ASSY		
203	1D	*	A53-0926-05	CASSETTE HOLDER ASSY		
204	2C	*	A53-0944-03	CASSETTE LID		
208	1D	*	B03-2286-05	DRESSING PLATE		
209	2D	*	B07-1733-02	ESCUOTHEON		
210	2D	*	B11-0153-04	COLOR FILTER (METER)		
211	2C	*	B12-0060-04	INDICATOR (COUNTER)		
212	2D	*	B35-0038-05	TAPE COUNTER		
			B46-0122-13	WARRANTY CARD	E	
			B46-0143-03	WARRANTY CARD	T	
		*	B50-6684-00	INSTRUCTION MANUAL (ENGLISH)	E	
		*	B50-6685-00	INSTRUCTION MANUAL (FRENCH)	E	
		*	B50-6686-00	INSTRUCTION MANUAL (G,D,I)	E	
215	1D	*	D10-1914-03	LEVER (EJECT)		
216	1D	*	D39-0172-05	DAMPER ASSY		
217	1D	*	D16-0158-04	BELT (TAPE COUNTER)		
△ 221	1E	*	E30-0459-05	AC POWER CORD	E	
△ 221	1E	*	E30-1416-05	AC POWER CORD	T	
△ 222	1C	*	E30-0505-05	AUDIO CORD		
229	1D	*	G01-2047-04	TORSION COIL SPRING (EJECT)		
230	1D	*	G01-2051-04	EXTENSION SPRING (EJECT)		
		*	H01-7500-04	ITEM CARTON CASE		
		*	H10-3409-02	POLYSTYRENE FOAMED FIXTURE		
		*	H10-3410-02	POLYSTYRENE FOAMED FIXTURE		
		*	H11-0009-04	POLYSTYRENE FOAMED BOARD		
		*	H25-0224-04	PROTECTION BAG (800X400X0.03)		
		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
234	2D, 2E	*	J02-0127-05	FOOT		
236	2E	*	J19-0514-05	UNIT HOLDER		
237	1D	*	J31-0498-04	COLLAR		
△ 238	1E	*	J42-0083-05	POWER CORD BUSHING		
		*	J61-0307-05	WIRE BAND		
242	2C	*	K29-2001-04	KNB ASSY (BUTTON) POWER		
244	2D	*	K27-1594-04	KNB (LEVER) TIMER, DOLBY NR		
245	2C	*	K29-1863-04	KNB (BUTTON) PLAY		
246	2C	*	K29-1865-04	KNB (BUTTON) FF		
247	2C	*	K29-1866-04	KNB (BUTTON) REW		
248	2D	*	K29-1890-04	KNB (BUTTON) REC/ARM PAUSE		
249	2D	*	K29-1891-04	KNB (BUTTON) PAUSE		
250	2C	*	K29-2201-04	KNB (BIAS ADJ)		
251	2C	*	K29-2202-04	KNB (BUTTON) STOP		
253	2C	*	K29-2661-04	KNB (PRESET)		
254	2C	*	K29-2682-04	KNB (MASTER REC LEVEL)		
255	2C	*	K29-2695-04	KNB ASSY (EJECT)		
△ 259	1D	*	L01-7872-05	POWER TRANSFORMER		
M	2C	*	N09-1445-05	SET SCREW (M3X8)		
CASSETTE UNIT (X26-1172-71)						
D46-49	1C		B30-0431-05	LED(LN21CPH)	AUTO TAPE SEL	

E: Scandinavia & Europe K: USA P: Canada

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

△ indicates safety critical components.

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks	
参照番号	位置	新	部品番号	部品名／規格	仕向	備考	
KX-550HX KX-550HX							
D50	1C		B30-0432-05	LED(LN31GCPH(U))PLAY			
			C1 ,2	POLYSTY	910PF	J	
			C3 ,4	ELECTRO	2.2UF	50WV	
			C5 ,6	CERAMIC	390PF	K	
			C7 ,8	ELECTRO	100UF	10WV	
			C9 ,10	MF	8200PF	J	
			C11 ,12	CE04KW1V4R7M	ELECTRO	4.7UF	35WV
			C13 ,14	CF92FV1H183J	MF	0.018UF	J
			C15 ,16	CK45FB1H471K	CERAMIC	470PF	K
			C17	CE04KW1C330M	ELECTRO	33UF	16WV
			C18	CE04KW1V100M	ELECTRO	10UF	35WV
			C19 ,20	CE04KW1V4R7M	ELECTRO	4.7UF	35WV
			C21 ,22	CE04KW1H220M	ELECTRO	2.2UF	50WV
			C23 ,24	CF92FV1H472J	MF	4700PF	J
			C25	CE04KW1H010M	ELECTRO	1.0UF	50WV
			C26	CE04KW1A102M	ELECTRO	1000UF	10WV
			C27	CE04KW1C220M	ELECTRO	47UF	16WV
			C28	CE04KW1C220M	ELECTRO	22UF	16WV
			C29 ,30	CF92FV1H472J	MF	4700PF	J
			C31 ,32	CE04KW1H010M	ELECTRO	1.0UF	50WV
			C33 ,34	CC45FSL1H330J	CERAMIC	33PF	J
			C35 ,36	CE04KW1C220M	ELECTRO	22UF	16WV
			C37 ,38	CE04KW1H01M	ELECTRO	0.1UF	50WV
			C39	CE04KW1V100M	ELECTRO	10UF	35WV
			C40	CE04KW1H33M	ELECTRO	3.3UF	50WV
			C43 ,44	CK45FB1H471K	CERAMIC	470PF	K
			C45 ,46	CE04KW1V100M	ELECTRO	10UF	35WV
			C47 ,48	CC45FSL1H220J	CERAMIC	22PF	J
			C49 ,50	CF92FV1H339J	MF	0.039UF	J
			C51 ,52	CE04F51H561J	POLYSTY	560PF	J
			C53 ,54	CF92FV1H272J	MF	2700PF	J
			C55 ,56	CE04KW1V100M	ELECTRO	10UF	35WV
			C57 ,62	CF92FV1H332J	MF	3300PF	J
			C63 ,64	CF92FV1H102J	MF	1000PF	J
			C65 ,66	CE04KW1V100M	ELECTRO	10UF	35WV
			C67 ,68	CF92FV1H682J	MF	6800PF	J
			C69	CE04KW1V100M	ELECTRO	10UF	35WV
			C70	CF92FV1H392J	MF	3900PF	J
			C71	CF92FV1H102J	MF	1000PF	J
			C72	CF92FV1H333J	MF	0.033UF	J
			C73	CC45FSL1H330J	CERAMIC	33PF	J
			C74	CE04KW1C330M	ELECTRO	33UF	16WV
			C75	CE04KW1H01M	ELECTRO	1.0UF	50WV
			C77	CF92FV1H683J	MF	0.068UF	J
			C78	CE04KW1C330M	ELECTRO	33UF	16WV
			C79 ,80	CE04KW1V100M	ELECTRO	10UF	35WV
			C81 ,82	CE04KW1C470M	ELECTRO	47UF	16WV
			C83	CE04KW1V100M	ELECTRO	10UF	35WV
			C85 ,86	CE04KW1H01M	ELECTRO	0.1UF	50WV
			C87 ,89	CK45FF1H103Z	CERAMIC	0.010UF	Z
			C90	CE04KW1V222M	ELECTRO	2200UF	35WV
			C91	CE04KW1C101M	ELECTRO	100UF	16WV
			C96	CE04KW1E470M	ELECTRO	47UF	25WV
			C97 ,101	CE04KW1V100M	ELECTRO	10UF	35WV

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C102			CEO4KW0J331M	ELECTRO	330UF	6.3WV		
C103,104			C91-0700-05	CERAMIC	0.1UF	J		
C105			CEO4KW0J471M	ELECTRO	470UF	6.3WV		
C106-109			CK45FB1H561K	CERAMIC	560PF	K		
C110			CEO4KW1V100M	ELECTRO	10UF	35WV		
C111,112			CEO4KW1H010M	ELECTRO	1.0UF	50WV		
C113,114			C90-1332-05	NP-ELEC	10UF	16WV		
C115,116			CEO4JW1V4R7M	ELECTRO	4.7UF	35WV		
C117		*	CEO4JW1C220M	ELECTRO	22UF	16WV		
C118			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C119			CEO4KW1V100M	ELECTRO	10UF	35WV		
C120			CEO4KW1C220M	ELECTRO	22UF	16WV		
C121			CEO4KW1V100M	ELECTRO	10UF	35WV		
C122			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C123,124			CEO4KW1V100M	ELECTRO	10UF	35WV		
C125,126			CF92FV1H152J	MF	1500PF	J		
263	1D		E23-0149-05	TERMINAL				
E1 ,2	1E	*	E11-0175-05	PHONE JACK (MIC)				
E3	1E		E11-0162-05	PHONE JACK(3P) PHONES				
E4	1E		E13-0446-05	PHONE JACK(4P) REC/PLAY				
L1 ,2			L79-0196-05	LC FILTER				
L3 ,4			L39-0125-05	TRAP COIL				
L5 ,6			L40-2238-29	SMALL FIXED INDUCTOR(22MH,6)				
X1			L78-0206-05	RESONATOR (4.000000MHZ)				
CP1			R90-0233-05	MULTI-COMP	10KX4	J 1/6W		
R34			RS14DB3A221J	FL-PR00F	RS 220	J 1W		
R152			RS14DB3D471J	FL-PR00F	RS 470	J 2W		
R153			RS14KB3D471J	FL-PR00F	RS 470	J 2W		
R154			RS14DB3A152J	FL-PR00F	RS 1.5K	J 1W		
R156			RS14KB3D560J	FL-PR00F	RS 56	J 2W		
R157			RS14DB3D560J	FL-PR00F	RS 56	J 2W		
R158			RS14DB3A681J	FL-PR00F	RS 680	J 1W		
R159			RS14DB3A680J	FL-PR00F	RS 68	J 1W		
R161			RS14DB3A102J	FL-PR00F	RS 1.0K	J 1W		
R172			RS14KB3D820J	FL-PR00F	RS 82	J 2W		
R210			RS14DB3D470J	FL-PR00F	RS 47	J 2W		
R247			RS14DB3D680J	FL-PR00F	RS 68	J 2W		
R248		*	RS14DB3D820J	FL-PR00F	RS 82	J 2W		
R252		*	RS14DB3D820J	FL-PR00F	RS 82	J 2W		
R253			RS14DB3D560J	FL-PR00F	RS 56	J 2W		
R259			RS14DB3D471J	FL-PR00F	RS 470	J 2W		
R260			RS14DB3D560J	FL-PR00F	RS 56	J 2W		
R261,262			RS14KB3D560J	FL-PR00F	RS 56	J 2W		
R263			RS14DB3D471J	FL-PR00F	RS 470	J 2W		
R264			RS14KB3D471J	FL-PR00F	RS 470	J 2W		
VR1 ,4			R12-3097-05	TRIMMING POT. (22K)PB/REC LEVEL				
VR5		*	R01-3041-05	POTENTIOMETER(10KA)BIAS ADJ				
VR6	2E	*	R06-5162-05	POTENTIOMETER(100KA)REC LVL, M				
VR7 ,8	2E	*	R01-4034-05	POTENTIOMETER(50KA)PRESET				
S1	1C		S40-2358-05	PUSH SWITCH (POWER)				
S2 ,3	1C		S31-2091-05	SLIDE SWITCH (TIMER, DOLBY NR)				
S4 ,8	1C		S40-1064-05	PUSH SWITCH (TAPE)				
S11 ,12	1C		S40-1064-05	PUSH SWITCH (FF,REW)				

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D1		1SS133	DIODE		
D1		1SS176	DIODE		
D2 ,3		HZS13N(B2)	ZENER DIODE		
D2 ,3		RD13ES(B2)	ZENER DIODE		
D4 ~13		1SS133	DIODE		
D4 ~13		1SS176	DIODE		
D14 ,15		1SS131	DIODE		
D14 ,15		1SS178	DIODE		
D16		RBV-402LFA	DIODE		
D20		HZS5.1N(B2)	ZENER DIODE		
D20		RDS.1ES(B2)	ZENER DIODE		
D24		HZS13N(B2)	ZENER DIODE		
D24		RD13ES(B2)	ZENER DIODE		
D25		HZS6.2N(B2)	ZENER DIODE		
D25		RD6.2ES(B2)	ZENER DIODE		
D26		* HZS8.2N(B2)	ZENER DIODE		
D26		* RDB.2ES(B2)	ZENER DIODE		
D27		1SS133	DIODE		
D27		1SS176	DIODE		
D28		DSM1A1	DIODE		
D29 ~31		1SS133	DIODE		
D29 ~31		1SS176	DIODE		
D42 ~44		1SS133	DIODE		
D42 ~44		1SS176	DIODE		
D51 ~54		1SS133	DIODE		
D57 ,58		1SS133	DIODE		
D57 ,58		1SS176	DIODE		
D60 ,61		1SS133	DIODE		
D60 ,61		1SS176	DIODE		
FL1	1C	* FGF255CGR	FLUORESCENT INDICATOR TUBE		
IC1		* UPC1290C	IC(2CH HEAD SWITCHING)		
IC2		UPC1228HA	IC(PREAMP FOR TAPE EQ X2)		
IC3 ,4		AN6556	IC(6P AMP X2)		
IC5		UPC78M15H	IC(VOLTAGE REGULATOR/+15V)		
IC6		BA6229	IC(MOTOR DRIVER)		
IC7		* M74HC04P	IC(HEX UNBUFFERED INVERTER)		
IC8		* M50757-403SP	IC(MICROPROCESSOR)		
IC9		HA12067NT	IC(FL DRIVER)		
Q1 ~5		2SC1740S(Q,R)	TRANSISTOR		
Q1 ~5		2SC945(A)(Q,P)	TRANSISTOR		
Q6		2SC2003(L,K)	TRANSISTOR		
Q7 ~19		2SC1740S(Q,R)	TRANSISTOR		
Q7 ~19		2SC945(A)(Q,P)	TRANSISTOR		
Q20 ~22		2SA733(A)(Q,P)	TRANSISTOR		
Q20 ~22		2SA933S(Q,R)	TRANSISTOR		
Q23 ~24		2SD1302(S,T)	TRANSISTOR		
Q25 ~26		2SC1845(F,E)	TRANSISTOR		
Q27 ~29		2SC1740S(B,R)	TRANSISTOR		
Q27 ~29		2SC945(A)(Q,P)	TRANSISTOR		
Q31		2SD1266(Q,P)	TRANSISTOR		
Q32		2SD863(E,F)	TRANSISTOR		
Q33 ,34		2SC1740S(B,R)	TRANSISTOR		
Q33 ,34		2SC945(A)(Q,P)	TRANSISTOR		
Q35		2SD863(E,F)	TRANSISTOR		

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Q36 ,37		2SA733(A)(Q,P)	TRANSISTOR		
Q36 ,37		2SA933S(Q,R)	TRANSISTOR		
Q39		2SC1740S(Q,R)	TRANSISTOR		
Q39		2SC945(A)(Q,P)	TRANSISTOR		
Q40 ,41		2SD863(E,F)	TRANSISTOR		
Q42 ,43		2SC1845(F,E)	TRANSISTOR		
267	1E	W02-0693-05	ELECTRIC CIRCUIT MODULE		
BIAS OSC UNIT (X87-1190-00)					
C1 ,2		CK45FB1H561K	CERAMIC	560PF	K
C3 ,4		CK45FSL1H151J	CERAMIC	150PF	J
C5 ,6		* C91-0938-05	POLYSTY	680PF	K
C7 ,8		C91-0700-05	CERAMIC	0.1UF	J
C9 ,10		CK45F1H223Z	CERAMIC	0.022UF	Z
C11 ,12		CK45FF1H103Z	CERAMIC	0.010UF	Z
C13		CEO4KW1V100M	ELECTRO	10UF	35WV
C14		* CC45FSL2H100D	CERAMIC	10PF	D
C15		CQ93HP24223J	MYLAR	0.022UF	J
C16		CEO4KW1V100M	ELECTRO	10UF	35WV
C17		CF92FV1H472J	MF	4700PF	J
C18		CF92FV1H272J	MF	2700PF	J
C19		CEO4KW1H010M	ELECTRO	1.0UF	50WV
C20		CEO4KW1C470M	ELECTRO	47UF	16WV
C21		CEO4KW1V100M	ELECTRO	10UF	35WV
L1 ,2		L32-0369-05	BIAS OSCILLATING COIL		
L3		L32-0370-05	OSCILLATING COIL		
R7		RD14GB2E100J	FL-PROBE RD	10	J 1/4W
R8		R92-0219-05	FUSE RESIST	10	G 1/4W
VR1 ,2		R12-3100-05	TRIMMING POT. (10K)BIAS CURRENT		
D1		1SS133	DIODE		
D1		1SS176	DIODE		
IC1		* UPC1297CA	IC(DBL HX PRO SYSTEM)		
Q1 ,2		2SD863(E,F)	TRANSISTOR		
DOLBY B/C NOISE REDUCTION UNIT (W02-0693-05)					
IC1		HA12088NT	IC(DOLBY B/C NOISE REDUCTION)		
CASSETTE MECHANISM ASS'Y (D40-0560-05)					
1	2A	A11-0247-08	SUB CHASSIS (HEAD BASE)		
6	1A	D03-0231-08	REEL DISK ASSY		
7	2A	D10-2013-08	ARM (L)		
8	3B	D10-2014-08	LEVER (PACK)		
9	2B,3B	D10-2015-08	LEVER (REC)		
10	3B	D10-2016-08	LEVER (METAL)		
11	2B	D10-2017-08	ARM (PLAY)		
12	2B	D13-0642-08	GEAR (CAM)		
13	1A	D14-0194-08	PINCH ROLLER ASSY		
14	2A	D14-0195-08	IDLER ASSY		
15	2B	D16-0170-08	BELT		
16	2A	D30-0019-08	Brake ASSY		
17	2B	D01-0093-08	FLYWHEEL ASSY		
20	2A	E31-4156-08	CONNECTING WIRE(R/P)		
21	2A	E31-4157-08	CONNECTING WIRE(E)		

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25	1A	G01-2107-08	G01-2107-08	COMPRESSION SPRING (AZIMUTH)		
26	2A	G01-2108-08	G01-2108-08	TENSION SPRING (HEAD BASE)		
27	2B	G01-2109-08	G01-2109-08	TENSION SPRING (PLAY ARM)		
28	2A	G01-2110-08	G01-2110-08	TORSION SPRING		
29	2A	G01-2111-08	G01-2111-08	TORSION SPRING (L)		
30	3A	G02-0454-08	G02-0454-08	FLAT SPRING (CASSETTE SHEET)		
31	2B	G16-0163-08	G16-0163-08			
36	1B	J21-5101-08	J21-5101-08	OUNTING HARDWARE (FW)		
38	1B	* J25-5707-08	J25-5707-08	PRINTED WIRING BOARD ASSY		
39	1A	J19-2878-08	J19-2878-08	HOLDER		
51	1A	N19-0904-08	N19-0904-08	FLAT WASHER (REEL DISK)		
52	2B	N19-0905-08	N19-0905-08	FLAT WASHER (Ø2.6)		
53	3B	N19-1091-08	N19-1091-08	FLAT WASHER		
54	1A	N19-1095-08	N19-1095-08	FLAT WASHER (REEL DISK)		
A	1B	N09-1858-08	N09-1858-08	SCREW		
B	1B, 3B	N09-1859-08	N09-1859-08	SCREW		
C	1A	N09-1860-08	N09-1860-08	SCREW (F. LOCK)		
D	1B	N09-1861-08	N09-1861-08	SCREW (M2.6X8)		
E	3A	N09-1862-08	N09-1862-08	SCREW		
F	3B	N09-1863-08	N09-1863-08	SEMIUS SCREW (M2.6X6)		
G	2A	N09-1864-08	N09-1864-08	STEPPED SCREW		
H	2B	N09-1865-08	N09-1865-08	SCREW (M2X13)		
S1 -4	1B	S90-0105-08	S90-0105-08	SLIDE SWITCH		
62	1A	T32-0015-08	T32-0015-08	ERASE HEAD		
63	1A	T34-0324-05	T34-0324-05	REC/PLAY HEAD		
64	2B	T42-0440-08	T42-0440-08	REEL MOTOR ASSY		
65	1B	T42-0441-08	T42-0441-08	MOTOR ASSY (MAIN)		
66	2B	T94-0201-08	T94-0201-08	SOLENOID		
PH1	1B	GP2SD9B	GP2SD9B	OPTICAL ISOLATOR		

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SPECIFICATIONS

Type.....	Front Loading Stereo Cassette Deck with Dolby B - C NR System
Track System.....	4-Track, 2-Channel Stereo/Mono, Recording/Playback
Recording System.....	AC Bias System (Bias Frequency: 85 kHz)
Erasing System.....	AC System
Tape Speed.....	4.76 cm/sec (1-7/8 ips)
Heads.....	Record and Playback Head x 1 (Hard Permalloy) Erase Head x 1 (Double Gap Ferrite)
Motors.....	Capstan Drive: Electronic Controlled DC Motor Reel Drive: DC Motor
Fast Winding Time.....	Approx. 90 seconds with C-60 tape
Frequency Response:	
Normal Tape.....	20 Hz to 16,000 Hz, ± 3 dB
CrO ₂ Tape.....	20 Hz to 17,000 Hz, ± 3 dB
Metal Tape.....	20 Hz to 18,000 Hz, ± 3 dB
Signal to Noise Ratio:	
Dolby C Type NR ON.....	74 dB (Metal Tape)
Dolby B Type NR ON.....	67 dB (Metal Tape)
Dolby NR OFF.....	59 dB (Metal Tape)
Harmonic Distortion.....	Less than 0.9% (at 1 kHz, 0 VU with Metal Tape)
Wow and Flutter.....	0.06% (W.R.M.S.) 0.16% (DIN)
Input Sensitivity/Impedance:	
LINE x 2.....	77.5 mV/50 k ohms
Microphones x 2.....	0.35 mV/600 ohms
Output Level/Load Impedance:	
LINE x 2.....	0.35 V (0 VU)/2 k ohms
Headphones x 1.....	0.3 mW/8 ohms
Power Consumption.....	35 watts
Dimensions.....	W: 420 mm (16-9/16") H: 113 mm (4-7/16") D: 326 mm (12-13/16")
Weight (Net).....	5.0 kg (11.1 lb)
Reference Tapes.....	Normal: KENWOOD ND-60 CrO ₂ : KENWOOD CD-60 Metal: KENWOOD MD-60

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Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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